

Appendix T: Mine location and mine victims in Hesarak district

S/No	Main village	Sub village	Mine location							Number of People and animals died and disabled by mine		
			A	B	C	D	E	F	G	People died	People disabled	Animals died
1	Abizangani	Jamal Khel	-	√	-	-	-	-	-	4	0	40
2	Bawlay		-	√	-	-	-	-	√	2	0	0
3	Gari	Sar Gar	-	-	-	-	√	-	-	1	0	0
4	Gari	Ziarat Kalay	-	√	-	-	-	-	-	0	1	0
5	Ghwagiza	Adam Khel	-	-	-	-	√	-	-	2	1	0
6	Ghwagiza	Alam Khel	-	-	-	-	√	-	-	3	2	0
7	Ghwagiza	Bogian	-	-	-	-	√	-	-	4	1	40
8	Lajgar	Lajgar	-	√	-	-	-	-	-	0	0	0
9	Mansoor China		-	-	-	-	-	√	-	5	1	10
10	Mohammadi		-	-	-	-	-	-	√	2	3	15
11	Many Shar		-	√	-	-	-	-	-	0	0	0
12	Yaghi Band		-	√	-	-	-	-	-	3	0	0

A= In houses

B= In roads

C= In agricultural land

D= In irrigation system

E= In forest near village

F= In grazing land near village

G= In mountains

Appendix U: Number of skilled people, type of skill and number of people involved in Hesarak district

S/No	Main village	Sub village	Skill people			Type of skill	No. of people involved	Avg. income derived/day/person
			Male	Female	Disabled			
1	Abizangani	Boday Now	3	0	0	Carpentry	1	50000
						Blacksmith	1	40000
						Barber	1	30000
2	Abizangani	Do Aab	2	0	0	Tailoring	1	50000
						Blacksmith	1	30000
3	Abizangani	Kok Darah	3	0	0	Carpentry	1	50000
						Tailoring	1	40000
						Barber	1	30000
4	Abizangani	Qader Khel	2	0	0	Blacksmith	1	60000
						Butcher	1	70000
5	Abizangani	Wati	2	0	0	Blacksmith	1	30000
						Barber	1	30000
6	Alam Kas		4	0	0	Carpentry	3	60000
						Mechanic	1	80000
7	Ali Khel		1	0	2	Tailoring	2	40000
						Carpentry	1	50000
8	Bawlay		3	0	0	Carpentry	1	30000
						Blacksmith	1	30000
						Barber	1	30000
9	Chartoot		10	4	0	Tailoring	7	50000
						Carpentry	1	50000
						Pottery	2	50000
						Driving	4	80000

Appendix U: Number of skilled people, type of skill and number of people involved in Hesarak district (Cont..)

Main S/No	Main village	Sub village	Skill people			Type of skill	No. of people involved	Avg. income derived/day/person
			Male	Female	Disabled			
10	Gari	Gari	0	5	0	Tailoring Driving	2 3	40000 100000
11	Gari	Ziarat Kalay	1	0	0	Masonry	1	90000
12	Gazak		1	0	0	Barber	1	20000
13	Ghwagiza	Adam Khel	11	0	0	Tailoring Masonry Driving	5 5 1	40000 80000 60000
14	Ghwagiza	Ali Sher	20	0	0	Carpentry Tailoring Blacksmith	6 10 4	80000 40000 50000
15	Ghwagiza	Bogian	1	6	0	Tailoring	7	70000
16	Ghwagiza	Dargian	1	3	0	Driving Tailoring	1 3	60000 80000
17	Ghwagiza	Karim-Khel	7	0	0	Carpentry Driving Masonry Tailoring	2 3 1 1	110000 110000 120000 90000
18	Ghwagiza	Mia Khel	1	0	0	Carpentry	1	80000
19	Ghwagiza	Saplai Jawara	5	0	0	Driving Tailoring	3 2	100000 78000
20	Ghwagiza	Sra	4	0	0	Blacksmith	4	0

Appendix U: Number of skilled people, type of skill and number of people involved in Hesarak district (Cont..)

S/No	Main village	Sub village	Skill people			Type of skill	No. of people involved	Avg. income derived/day/person
			Male	Female	Disabled			
21	Gad Khel		3	0	0	Blacksmith	1	30000
						Barber	1	30000
						Pottery	1	30000
22	Gulo Khel		9	0	1	Blacksmith	2	70000
						Pottery	1	65000
						Tailoring	1	80000
						Masonry	6	70000
23	Halim Khel		5	0	1	Tailoring	1	50000
						Driving	3	50000
						Masonry	1	80000
						Cobbler	1	30000
24	Jabai		4	0	0	Carpentry	1	60000
						Blacksmith	1	40000
						Tailoring	1	50000
						Embroidery	1	40000
25	Jokan	Arab Khel	10	2	1	Carpentry	3	40000
						Mechanic	1	50000
						Driving	4	70000
						Blacksmith	1	50000
						Tailoring	4	60000
26	Jokan	Baro Shekhan	3	5	0	Carpentry	3	50000
						Tailoring	5	50000
27	Jokan	Ghazi Qala	9	4	0	Tailoring	6	50000
						Driving	2	50000
						Daily working	4	20000
						Watch repairing	1	60000

Appendix U: Number of skilled people, type of skill and number of people involved in Hesarak district (Cont..)

Main S/No	village	Sub village	Skill people			Type of skill	No. of people involved	Avg. income derived/day/person
			Male	Female	Disabled			
28	Jokan	Kamarkay Shekhan	16	20	0	Carpentry	1	10000
						Blacksmith	2	50000
						Driving	10	20000
						Tailoring	8	15000
						Weaving	15	10000
29	Jokan	Khanami Kote	2	0	1	Driving	2	60000
						Tailoring	1	20000
30	Jokan	Landi Shekhan	1	5	0	Tailoring	5	60000
31	Jokan	Nargosay	7	2	0	Carpentry	3	40000
						Tailoring	4	60000
						Driving	2	100000
32	Kaday		5	0	0	Driving	5	70000
33	Khanjar		4	0	0	Blacksmith	4	20000
34	Khomar Khel	Malakan	6	5	0	Tailoring	6	60000
						Carpentry	2	50000
						Driving	3	50000
35	Kolala	Koza Kolala	1	0	0	Pottery	1	10000
36	Lajgar	Lajgar	15	5	0	Tailoring	10	50000
						Carpentry	4	150000
						Driving	6	50000
37	Langar khel		9	0	1	Carpentry	4	80000
						Tailoring	3	60000
						Driving	3	90000

Appendix U: Number of skilled people, type of skill and number of people involved in Hesarak district (Cont..)

S/No	Main village	Sub village	Skill people			Type of skill	No. of people involved	Avg. income derived/day/person
			Male	Female	Disabled			
38	Mia Sahib Kalay		7	0	0	Carpentry	2	100000
						Blacksmith	3	100000
						Tailoring	2	70000
39	Miagan		0	4	0	Tailoring	4	50000
40	Malakan		5	0	0	Driving	5	80000
41	Mansoor China		2	0	0	Tailoring	1	90000
						Driving	1	100000
42	Miz Ghondi		14	4	0	Tailoring	12	100000
						Blacksmith	2	90000
						Carpentry	4	200000
43	Mohammadi		1	0	2	Blacksmith	1	50000
						Tailoring	2	70000
44	Naser Khel		3	0	0	Barber	2	60000
						Blacksmith	1	80000
45	Nawar	Chahartut	1	0	0	Carpentry	1	100000
46	Nawar	Dagyan	10	3	1	Mechanic	2	100000
						Carpentry	2	80000
						Tailoring	4	80000
						Pottery	2	50000
						Blacksmith	4	60000
47	Nawar	Dando	1	8	1	Tailoring	8	80000
						Mechanic	1	100000
						Carpentry	1	60000

Appendix U: Number of skilled people, type of skill and number of people involved in Hesarak district (Cont..)

S/No	Main village	Sub village	Skill people			Type of skill	No. of people involved	Avg. income derived/day/person
			Male	Female	Disabled			
48	Nawar	Spina Qala	10	5	0	Carpentry	3	100000
						Blacksmith	4	100000
						Tailoring	8	60000
49	Parjina		0	0	2	Tailoring	2	60000
50	Qalaqay		5	2	0	Tailoring	4	80000
						Driving	3	50000
51	Qazyan		6	2	0	Daily working	4	100000
						Blacksmith	2	90000
						Tailoring	2	70000
52	Ragha	Ragha	7	0	1	Tailoring	5	100000
						Driving	3	90000
53	Ragha	Bostan Khel	1	0	0	Masonry	1	80000
54	Ragha	Naser Khel	5	0	0	Masonry	3	80000
						Driving	1	50000
						Tailoring	1	40000
55	Sarando Kalay		20	0	0	Carpentry	5	80000
						Blacksmith	3	30000
						Tailoring	2	80000
						Driving	10	50000
56	Seyaw Bala		3	0	0	Blacksmith	1	50000
						Barber	1	50000
						Pottery	1	40000
57	Seyaw Payan		6	1	0	Tailoring	3	50000
						Blacksmith	2	55000
						Driving	2	70000

Appendix U: Number of skilled people, type of skill and number of people involved in Hesarak district (Cont..)

S/No	Main village	Sub village	Skill people			Type of skill	No. of people involved	Avg. income derived/day/person
			Male	Female	Disabled			
58	Shabak	Landy Shabak	8	5	0	Tailoring	5	100000
						Blacksmith	1	70000
						Driving	7	100000
59	Shabak	Shabak-e-Bala	3	0	0	Tailoring	3	90000
60	Sinzi		12	0	1	Blacksmith	2	60000
						Tailoring	8	50000
						Barber	3	60000
61	Wodisar		1	0	0	Barber	1	100000
62	Yaghi Band		13	0	0	Driving	6	100000
						Blacksmith	1	50000
						Carpentry	6	60000
63	Zarif Khel		1	0	0	Tailoring	1	80000



Appendix V: Seasonal productive activities in Hesarak district

S/No	Main village	Sub village	Seasonal productive activities		
			Type	Time involved,	income/day
1	Abizangani	Boday Now	Lancing Weeding	JUN APR	110000 70000
2	Abizangani	Do Aab	Lancing	JUN	110000
3	Abizangani	Gulab KheL	Lancing	JUN	120000
4	Abizangani	Kok Darah	Lancing Weeding	JUN APR	95000 70000
5	Abizangani	Lawar Khel	Lancing Weeding	JUN MAY	110000 60000
6	Abizangani	Ozba Khel	Weeding	APR	50000
7	Abizangani	Qader Khel	Harvesting	JUL	100000
8	Alam Kas		Weeding Lancing	MAY JUN	0 0
9	Ali Khel		Weeding Lancing	MAR MAY	50000 100000
10	Bawlay		Lancing	JUN	100000
11	Chartoot		Weeding Lancing	MAR MAY	100000 100000
12	Chorchang		Lancing	JUN	100000
13	Dobi		Lancing	JUN	100000
14	Ganju Khel		Lancing	JUN	110000
15	Gari	Gari	Weeding Lancing	MAR JUN	70000 150000
16	Gari	Ziarat Kalay	Weeding Lancing	MAY	0 0
17	Gazak		Lancing Weeding	JUN APR	100000 80000
18	Ghwagiza	Ali Sher	Weeding Lancing	MAR JUN	80000 100000
19	Ghwagiza	Bogian	Weeding Lancing Harvesting	APR JUN JUL	50000 120000 80000
20	Ghwagiza	Dargian	Weeding	APR	50000
21	Ghwagiza	Injabat Khel	Lancing	JUN	100000

Appendix V: Seasonal productive activities in Hesarak district (Cont..)

S/No	Main village	Sub village	Seasonal productive activities		
			Type	Time involved	income/day
22	Ghwagiza	Kabalo kas	Lancing	JUN	90000
23	Ghwagiza	Karim-Khel	Lancing	JUN	110000
			Harvesting	JUL	110000
24	Ghwagiza	Khengay	Weeding	MAY	0
			Lancing	JUN	0
			Harvesting	JUL	0
25	Ghwagiza	Mia Khel	Harvesting	JUL	80000
			Lancing	JUN	120000
26	Ghwagiza	Mana Khel	Lancing	JUN	100000
27	Ghwagiza	Saplai Jawara	Weeding	APR	0
			Lancing	JUN	0
28	Ghwagiza	Sra	Ploughing	JUN	100000
			Har.Hashish	NOV	120000
29	Gad Khel		Lancing	JUN	110000
30	Gulo Khel		Weeding	MAR	75000
			Lancing	JUN	120000
31	Hadira Kas		Weeding	MAY	100000
			Lancing	JUN	120000
32	Halim Khel		Harvesting	JUN	100000
			Lancing	MAY	150000
			Weeding	MAR	50000
33	Hasan Kas		Weeding	APR	80000
			Lancing	JUN	100000
34	Jabai		Harvesting	JUN	100000
			Lancing	MAY	150000
			Weeding	MAR	50000
35	Jokan	Arab Khel	Weeding	MAR	100000
			Lancing	JUN	100000
36	Jokan	Sakan	Lancing	JUN	100000
37	Jokan	Durullah Khel	Weeding	MAR	80000
			Lancing	JUN	100000
38	Jokan	Ghazi Qala	Weeding	MAR	80000
			Lancing	JUN	100000
39	Jokan	Kamarkay Shekhan	Weeding	MAR	80000
			Lancing	JUN	100000
40	Jokan	Khanami Kote	Weeding	MAR	50000
			Lancing	JUN	100000
41	Jokan	Khanano Kalay	Weeding	MAR	70000
			Lancing	JUN	100000

The main reasons cited by the villagers for growing the illicit crops was high income (reported by 88 villages) and low water requirement (by 18 villages) (see Table 4.2 and Appendix N).

**Table 4.2: Main reasons for growing illicit crops**

Major reasons for growing illicit crop	No. of villages replied
More income	88
Low water requirement	18

## 5. IRRIGATION SOURCES

Canals/streams are the foremost sources of irrigation water in Hesarak irrigating 74% of the total land. Karez water followed by spring water irrigated 15% and 12% of the cultivated land, respectively. No reply was received for wells as an irrigation source (see Table 5.1 and Appendix O).

**Table 5.1: Irrigation water sources**

Irrigation water sources	No. of villages reported	% of land irrigated By	Flow status cited by villagers as	
			normal	Abnormal
Canal/stream	74	74	12	62
Karez	17	15	1	16
Spring	15	12	4	11
Wells	0	0	0	0

No. of villages surveyed: 97

The highest replies for abnormality of water flow was recorded for canals/streams (62). From the 17 villages using karez for irrigation, 16 had problems with abnormality in water flow. 11 villages complained about the abnormal water flow of the springs. While people were asked for the activities for their normal operation of the irrigation water sources, they mentioned canal cleaning, construction of diversion dam, repairing of related structures, protection walls, cleaning of streams and karez channels and wells, extension of karez channels, cleaning of springs and construction of reservoirs (see Table 5.2 and Appendix O).

Appendix V: Seasonal productive activities in Hesarak district (Cont..)

S/No	Main village	Sub village	Seasonal productive activities		
			Type	Time involved	income/day
42	Jokan	Kharoti	Sell fire wood	OCT	50000
43	Jokan	Nargosay	Lancing	JUN	100000
44	Jokan	Saraw	Lancing	JUN	100000
45	Kaday		Lancing	JUN	80000
46	Khomar Khel	Malakan	Lancing	MAY	100000
47	Kolala	Koza Kolala	Lancing	JUN	100000
48	Lajgar	Lajgar	Weeding	MAR	100000
			Lancing	MAY	100000
49	Langar khel		Lancing	JUN	120000
50	Mia Sahib Kalay		Lancing	JUN	100000
51	Miagan		Weeding	MAR	90000
			Lancing	MAY	100000
52	Malakan		Lancing	JUN	120000
53	Miz Ghondi		Weeding	APR	60000
			Lancing	JUN	100000
54	Mohammadi		Lancing	JUN	80000
			Harvesting	JUN	100000
55	Many Shar		Weeding	MAY	0
			Lancing	JUN	0
56	Naser Khel		Lancing	JUN	110000
			Harvesting	JUN	100000
57	Nawar	Dagyan	Weeding	MAR	100000
			Lancing	MAY	100000
58	Nawar	Dando	Weeding	MAR	100000
			Lancing	JUN	100000
			Harvesting	JUN	80000
59	Parjina		Weeding	MAR	100000
			Lancing	MAY	100000
60	Qazyan		Harvesting	JUN	100000
			Lancing	JUN	100000
61	Ragha	Ragha	Harvesting	JUN	100000
			Lancing	JUN	120000
62	Ragha	Bostan Khel	Weeding	APR	100000
			Lancing	MAY	150000

Appendix V: Seasonal productive activities in Hesarak district (Cont..)

S/No	Main village	Sub village	Seasonal productive activities		
			Type	Time involved	income/day
63	Ragha	Naser Khel	Harvesting	JUN	100000
			Lancing	MAY	150000
			Weeding	MAR	50000
64	Sarando Kalay		Weeding	MAR	50000
			Lancing	MAY	100000
65	Seyaw Bala		Harvesting	JUN	60000
66	Seyaw Payan		Weeding	APR	80000
			Lancing	JUN	100000
67	Shabak	Landy Shabak	Weeding	MAR	100000
			Lancing	MAY	100000
68	Shabak	Shabak-e-Bala	Weeding	APR	60000
			Lancing	JUN	120000
69	Sinzi		Harvesting	JUN	100000
70	Tomany	Koro Naw	Sell fire wood	OCT	80000
71	Tori Khel		Lancing	JUN	100000
72	Wodisar		Weeding	APR	90000
			Lancing	JUL	150000
73	Yaghi Band		Weeding	MAY	0
			Lancing	JUN	0
74	Zarit Khel		Weeding	JUN	100000

Appendix W: Type of shops in Hesarak district

S/No	Main village	Sub village	Number of shops	General store	Medical store	Black smith	Vegetable shop	Butcher	Cloth store	Oil shop	Wood shop	Bakery	Hotel
1	Abizangani	Do Aab	4	√	√	√	-	-	-	-	-	-	-
2	Bowly		1	√	-	-	-	-	-	-	-	-	-
3	Chartoot		1	√	-	-	-	-	-	-	-	-	-
4	Ghwagiza	Ali Sher	2	-	-	-	-	-	-	-	-	-	-
5	Ghwagiza	Dargian	1	√	-	-	-	-	-	-	-	-	-
6	Halim Khel		2	√	-	-	-	-	-	-	-	-	-
7	Jokan	Arab Khel	6	√	√	-	√	√	-	-	-	-	-
8	Jokan	Kamarkay	1	√	-	-	-	-	-	-	-	-	-
9	Jokan	Khanami Kote	1	√	-	-	-	-	-	-	-	-	-
10	Jokan	Khanano Kalay	1	-	√	-	-	-	-	-	-	-	-
11	Jokan	Nargosay	1	√	-	-	-	-	-	-	-	-	-
12	Khomar Khel	Malakan	1	√	-	-	-	-	-	-	-	-	-
13	Lajgar		3	√	√	-	-	-	-	-	-	-	-
14	Mansoor China		1	√	-	-	-	-	-	-	-	-	-
15	Mohammadi		2	√	-	-	-	-	-	-	-	-	-
16	Nasir Khel		1	√	-	-	-	-	-	-	-	-	-
17	Nawar	Dagyan	1	-	√	-	-	-	-	-	-	-	-
18	Parjina		1	√	-	-	-	-	-	-	-	-	-
19	Sarando Kalay		3	√	-	-	-	-	-	-	-	-	-
20	Seyaw Payan		1	√	-	-	-	-	-	-	-	-	-
21	Shabak-e-Bala		40	√	√	-	-	-	√	√	√	√	√
22	Zarit Khel		4	√	-	-	-	-	√	-	-	-	√

Appendix X: Food items, construction material and fuel prices in district center  
(Shabak-e-Bala) of Hesarak

Food item			Construction material and fuel		
Name	Unit	Price(Afs)	Item name	Specification	Price(Afs)
Sugar	Seer	200000	Wood beam	4m	300000/Unit
Black tea	Kg	180000	Dastak	3m	160000/Unit
Green tea	Kg	170000	Wooden door	2X1	800000/Unit
Salt	Seer	17000	Wooden wineow	1.5X1.5	1200000/Unit
Ghee	Kg	55000	Fire wood	Chari	13000/Seer
Flour	Seer	110000	Fire wood	Berry	12000/Seer
Rice	Seer	230000	Diesel	Pakistani	22000/Litter
Bean	Seer	200000	Petrol	Pakistani	27000/Litter
Mung bean	Seer	110000	Kerosene	Pakistani	25000/Litter
Lentil	Seer	180000			
Onion	Seer	50000			
Potato	Seer	60000			

Appendix Y: List of active UN agencies and NGOs in Hesarak district

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
1	Abizangani	Boday Now	UNICEF	Human vaccination	Completed
2	Abizangani	Do Aab	UNICEF	Human vaccination	Completed
3	Abizangani	Gulab Khel	UNICEF	Human vaccination	Completed
4	Abizangani	Jamal Khel	UNICEF	Human vaccination	Completed
5	Abizangani	Kok Darah	UNICEF	Human vaccination	Completed
6	Abizangani	Lawar Khel	UNICEF	Human vaccination	Completed
7	Abizangani	Ozba Khel	UNICEF	Human vaccination	Completed
8	Abizangani	Qader Khel	UNICEF	Human vaccination	Completed
9	Abizangani	Sharif Khel	UNICEF	Human vaccination	Completed
10	Abizangani	Shinwari	UNICEF	Human vaccination	Completed
11	Abizangani	Wati	UNICEF	Human vaccination	Completed
12	Alam Kas		UNICEF	Human vaccination	Completed
13	Ali Khel		DACAAR	Water supply	Completed
			DACAAR	Sanitation	Ongoing
			UNICEF	Human vaccination	Completed
14	Bawlay		UNICEF	Human vaccination	Completed
			RAFA	Cleaning of Karez	Ongoing
15	Chartoot		DACAAR	Water supply	Ongoing
			DACAAR	Sanitation	Ongoing
			SCA	Dist. of imp. seed and fert.	Completed
			UNICEF	Human vaccination	Completed
16	Chorchang		SCA	Dist. of imp. seed and fert.	Completed
			UNICEF	Human vaccination	Completed
17	Dobi		UNICEF	Human vaccination	Completed
			DACAAR	Sanitation	Completed
18	Ganju Khel		UNICEF	Human vaccination	Completed
			DACAAR	Water supply	Completed
19	Gari	Gari	UNICEF	Human vaccination	Completed
20	Gari	Maeen Gari	UNICEF	Human vaccination	Completed



Appendix Y: List of active UN agencies and NGOs in Hesarak district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
21	Gari	Sar Gari	UNICEF	Human vaccination	Completed
22	Gari	Ziarat Kalay	UNICEF	Human vaccination	Completed
23	Gazak		UNICEF	Human vaccination	Completed
			GOVERNMENT	Traditional birth attendant	Completed
24	Ghwagiza	Adam Khel	UNICEF	Human vaccination	Completed
25	Ghwagiza	Alam Khel	UNICEF	Human vaccination	Completed
26	Ghwagiza	Ali Sher	UNICEF	Human vaccination	Completed
27	Ghwagiza	Bogian	UNICEF	Human vaccination	Completed
28	Ghwagiza	Dargian	UNICEF	Human vaccination	Completed
29	Ghwagiza	Injabat Khel	UNICEF	Human vaccination	Completed
30	Ghwagiza	Kabalo kas	UNICEF	Human vaccination	Completed
31	Ghwagiza	Karim-Khel	UNICEF	Human vaccination	Completed
			UNKNOWN	Dist. of imp. seed and fert.	Completed
32	Ghwagiza	Khengay	UNICEF	Human vaccination	Completed
33	Ghwagiza	Mia Khel	UNICEF	Human vaccination	Completed
34	Ghwagiza	Mana Khel	UNICEF	Human vaccination	Completed
35	Ghwagiza	Saplai Jawara	UNICEF	Human vaccination	Completed
36	Ghwagiza	Sra	UNICEF	Human vaccination	Completed
37	Gad Khel		UNICEF	Human vaccination	Completed
			DACAAR	Sanitation	Ongoing
38	Gulo Khel		DACAAR	Water supply	Completed
			DACAAR	Sanitation	Ongoing
39	Hadira Kas		DACAAR	Water supply	Completed
40	Halim Khel		UNICEF	Human vaccination	Completed
			OMAR	Demining	Completed
41	Hasan Kas		UNICEF	Human vaccination	Completed
			DACAAR	Water supply	Completed

Appendix Y: List of active UN agencies and NGOs in Hesarak district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
42	Jabai		DACAAR UNICEF	Water supply Human vaccination	Completed Completed
43	Jokan	Arab Khel	FAO UNICEF DACAAR	Dist. of imp. seed and fert. Human vaccination Water supply	Completed Completed Completed
44	Jokan	Baro Shekhan	UNICEF DACAAR	Human vaccination Water supply	Completed Ongoing
45	Jokan	Sakan	UNICEF	Human vaccination	Completed
46	Jokan	Durullah Khel	DACAAR UNICEF	Water supply Human vaccination	Completed Completed
47	Jokan	Ghazi Qala	DACAAR UNICEF DACAAR	Water supply Human vaccination Sanitation	Completed Completed Ongoing
48	Jokan	Kamarkay Shekhan	DACAAR DACAAR UNICEF	Water supply Sanitation Human vaccination	Ongoing Ongoing Completed
49	Jokan	Khanami Kote	UNICEF DACAAR	Human vaccination Sanitation	Completed Ongoing
50	Jokan	Khanano Kalay	UNICEF	Human vaccination	Completed
51	Jokan	Kharoti	UNICEF	Human vaccination	Completed
52	Jokan	Landi Shekhan	DACAAR UNICEF	Water supply Human vaccination	Ongoing Completed
53	Jokan	Nargosay	DACAAR DACAAR AGBASEd UNICEF	Water supply Sanitation Education program Human vaccination	Ongoing Ongoing Ongoing Completed

Appendix Y: List of active UN agencies and NGOs in Hesarak district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
54	Jokan	Shinshobey	UNICEF	Human vaccination	Completed
55	Jokan	Shinwary	UNICEF	Human vaccination	Completed
56	Jokan	Teray	UNICEF	Human vaccination	Completed
57	Kaday		DACAAR	Sanitation	Ongoing
			UNICEF	Human vaccination	
58	Khanjar		UNICEF	Human vaccination	Completed
			SCA	Dist.. of imp. seed and fert.	Completed
59	Khomar Khel	Malakan	SCA	Unknown	Completed
			UNICEF	Human vaccination	Completed
			DACAAR	Water supply	Completed
60	Kolala	Bara Kolala	UNICEF	Human vaccination	Completed
61	Kolala	Koza Kolala	UNICEF	Human vaccination	Completed
			GOVERNMENT	Traditional birth attendant	Completed
62	Lajgar	Lajgar	DACAAR	Water supply	Ongoing
			SCA	Education program	Completed
			UNICEF	Human vaccination	Completed
			DACAAR	Sanitation	Ongoing
63	Langar khel		UNICEF	Human vaccination	Completed
			DACAAR	Water supply	Completed
			UNKNOWN	Demining	Completed
64	Mia Sahib Kalay		DACAAR	Water supply	Completed
			UNICEF	Human vaccination	Completed
			DACAAR	Sanitation	Ongoing
			UNKNOWN	Vocational training program	Ongoing
65	Miagan		UNICEF	Human vaccination	Completed
			AGBASEd	Education program	Ongoing

Appendix Y: List of active UN agencies and NGOs in Hesarak district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
66	Malakan		UNKNOWN OMAR UNICEF AGBASEd SCA	Construction of stream Mine awareness Human vaccination Education program Dist. of imp. seed and fert.	Completed Completed Completed Ongoing Completed
67	Mansoor China		UNICEF	Human vaccination	Completed
68	Mardar Dand		UNICEF ATC	Human vaccination Demining	Completed Completed
69	Miz Ghondi		DACAAR UNICEF IRC	Water supply Human vaccination Vocational training program	Completed Completed Ongoing
70	Mohammadi		DACAAR UNKNOWN UNICEF	Water supply Dist. of imp. seed and fert. Human vaccination	Completed Completed Completed
71	Naser Khel		UNHCR SCA UNICEF	Water supply Dis. of imp. seed and fert. Human vaccination	Completed Completed Ongoing
72	Nawar	Chahartut	DACAAR UNICEF	Sanitation Human vaccination	Ongoing Completed
73	Nawar	Dagyan	DACAAR IRC SCA UNICEF	Sanitation Vocational training program Dist. of imp. seed and fert. Human vaccination	Ongoing Ongoing Completed Completed
74	Nawar	Dando	DACAAR UNICEF SCA	Sanitation Human vaccination Dist. of imp. seed and fert.	Ongoing Completed Completed

Appendix Y: List of active UN agencies and NGOs in Hesarak district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
75	Nawar	Spina Qala	DACAAR IRC UNICEF	Sanitation Vocational training program Human vaccination	Ongoing Ongoing Completed
76	Parjina		UNICEF	Human vaccination	Completed
77	Qalaqay		UNICEF	Human vaccination	Completed
78	Qazyan		SCA UNICEF	Dist. of imp. seed and fert. Human vaccination	Completed Completed
79	Ragha	Ragha	DACAAR SCA UNICEF	Water supply Dist. of imp. seed and fert. Human vaccination	Completed Completed Completed
80	Ragha	Bostan Khel	DACAAR OMAR	Water supply Demining	Completed Completed
81	Ragha	Naser Khel	DACAAR UNICEF	Water supply Human vaccination	Completed Completed
82	Sarando Kalay		UNICEF	Human vaccination	Completed
83	Seyaw Bala		UNICEF DACAAR	Human vaccination Sanitation	Completed Ongoing
84	Seyaw Payan		AGBASEd UNICEF	Education program Human vaccination	Ongoing Completed
85	Shabak	Landy Shabak	SCA DACAAR UNICEF	Dist. of imp. seed and fert. Sanitation Human vaccination	Completed Ongoing Completed

**Table 5.2: Activities needed for normal operation of the irrigation sources**

Activities needed for normal operation	No. of villages replied for
Canal/stream	
Canal cleaning	18
Construction of diversion dam	61
Repairing of related structures	24
Protection wall	5
Karez	
Cleaning of karez channel	14
Extension of karez channel	14
Cleaning of karez wells	16
Protection wall	1
Spring	
Repairing of related structures	4
Cleaning of spring	3
Construction of reservoir	4

91% of the surveyed villages cited adequate and 8% inadequate amount of water in their irrigation system. Where inadequate, the existing amount of water was cited to meet 66% of the land's irrigation requirements (see Table 5.3 and Appendix). The period of irrigation water shortage in the surveyed area was different depending on the location of surveyed villages (for more details see Appendix O)

**Table 5.3: Irrigation water sufficiency**

No. of villages surveyed	% of villages where irrigation water is		Average % of land for which existed water is enough
	enough	not enough	
97	8	91	66

The main reason for irrigation water shortage was reported by 76 villages to be drought. Other reasons were recorded as dam damaged by flood, stream filled by flood, karez damaged, water infiltration in stream and lack of reservoirs.

**Table 5.4: Main reasons for irrigation water shortage**

Reasons	No. of villages replied
Drought	76
Dam damaged by flood	3
Stream filled by flood	2
Karez damaged	2
Water infiltration in stream	2
Lack of reservoir	1

Appendix Y: List of active UN agencies and NGOs in Hesarak district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
86	Shabak	Shabak-e-Bala	DACAAR UNICEF SCA	Water supply Human vaccination Dist. of imp. seed and fert.	Completed Completed Completed
87	Sinzi		UNICEF	Human vaccination	Completed
88	Tomany	Koro Naw	UNICEF	Human vaccination	Completed
89	Tomany	Oghuz	UNICEF	Human vaccination	Completed
90	Tori Khel		DACAAR UNICEF	Water supply Human vaccination	Completed Completed
91	Wodisar		UNICEF	Human vaccination	Completed
92	Yaghi Band		UNICEF DACAAR	Human vaccination Water supply	Completed Completed
93	Yaka Khak		UNICEF DACAAR	Human vaccination Water supply	Completed Completed
94	Zarif Khel		UNICEF DACAAR AGBASEd	Human vaccination Water supply Education program	Completed Completed Ongoing

**Appendix Z**  
**Map of the surveyed area**



# NANGARHAR PROVINCE

## Hisarak District



### LEGEND

- District Boundaries
- Primary Roads
- Secondary Roads
- Tertiary Roads
- Foot Paths
- Rivers
- District Centers
- Sub-District Centers
- USDMA Villages
- New Villages
- Cultivated Areas

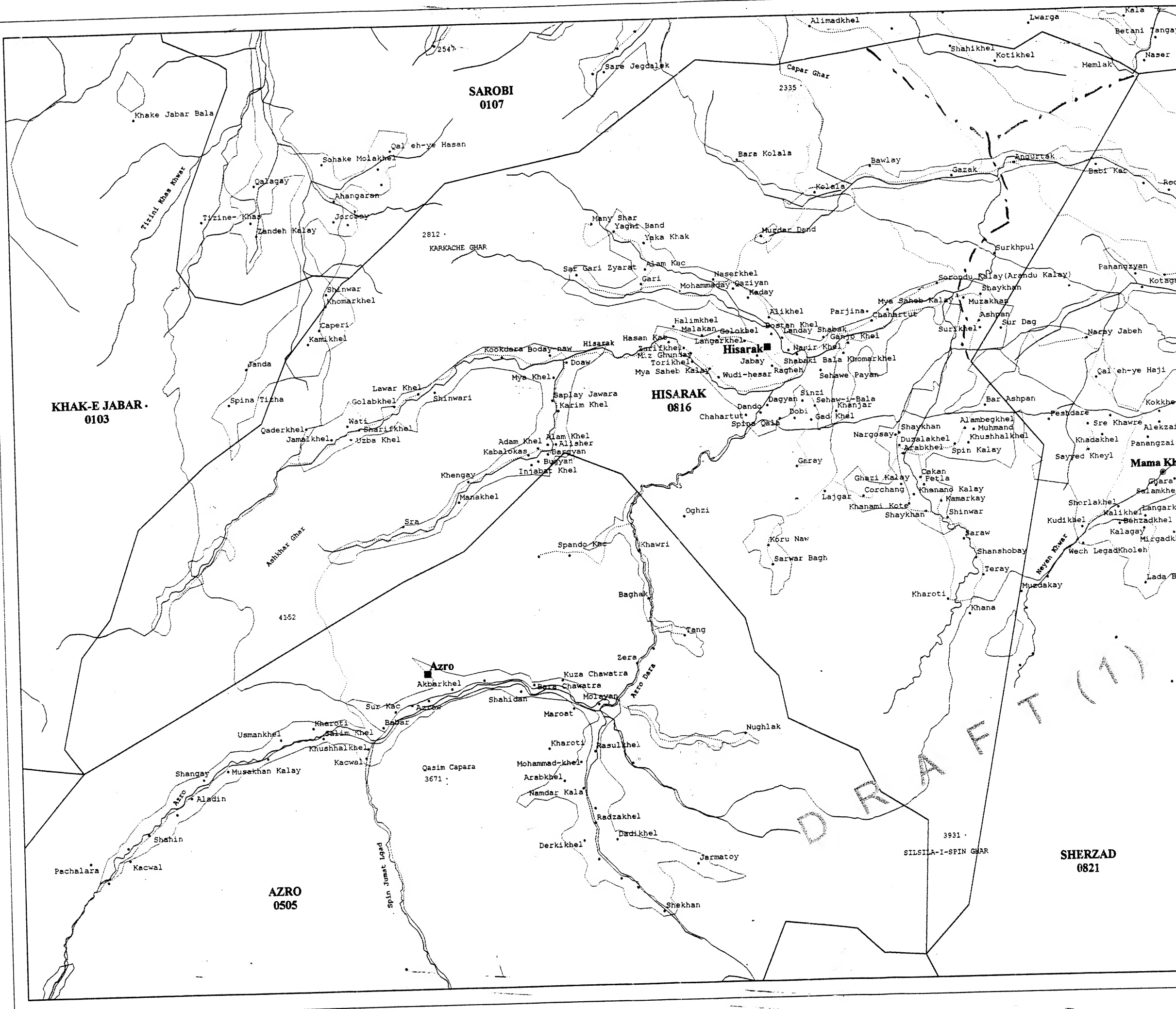
**Sources:**  
**Road locations:**  
 Digitized from Afghanistan 1:100,000 series (USDMA) (Washington 1968-1985). These represent with a few exceptions, prewar roads. Newly created or widened roads are often missing.

**Province Borders and District (MCE) Borders and Codes:**  
 Minor Civil Divisions Map A. Ashraf et al. for the ADS and the Ministry of Planning (Kabul, 1973). Province boundaries follow aid community reporting standards and do not reflect the recent changes. MCD boundaries are accurate to within 10 km.

**Cultivated Areas, Roads & Rivers**  
 Cultivated areas, Roads & Rivers are derived from Afghanistan 1:100,000 scale maps (USDMA).

**Designations and Boundaries:**  
 The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever the part of the United Nations Development Programme (UNDP) concerning the legal status of any country, city or area or of its authorities or concerning the delimitation of its frontier or boundaries.

**New Villages:**  
 Additional / New Villages are introduced by ACBAR.  
 Date: 27 May 2000.



## 6. LIVESTOCK AND POULTRY

Animal husbandry is another significant economic activity and the selling of livestock and livestock products represents a major proportion of income for the households. In addition, donkeys, camels and horses are a valuable means of transportation in the areas surveyed.

**Table 6.1: Livestock ownership**

Livestock	No. of villages reported	Total number
Cattle	96	7760
Sheep & goat	96	26244
Camel	2	9
Donkey	96	2251
Horse	15	77
Mule	8	34

A total of 7,760 cattle, 26,244 sheep and goats, 2,251 donkeys, 9 camels, 77 horses and 34 mules were recorded in all the areas under survey (see Table 6.1 and Appendix P).

**Table 6.2: Poultry**

No. of villages surveyed	No. of villages reported	Average No. of chicken per family
97	95	10

Poultry farming was reported in 95 villages. There was an average of 10 chickens per family in the surveyed area. No improved breed of chicken was found in Hesarak district (see Table 6.2 and Appendix P).

## 7. EDUCATION

According to the data, three home schools are functioning in the area where 186 boys and 138 girls are studying under instruction from six male teachers. Two of these home schools are funded by AGBASEd and one of them is funded by the government. Four primary schools were found where 783 boys and 41 girls are receiving education from 34 male teachers. Of these four schools, one is damaged, two are undamaged and one does not have any building. Two of them belong to the government and one belongs to the community. Two of these primary schools are funded by government and two of them are funded by AGBASEd.

**Table 7.1: Education facilities**

Level of school	No. of schools	No. of student		No. of teacher		Funding sources	
		boys	girls	male	female	Government	AGBASEd
Home	3	186	138	6	0	1	2
Primary	4	783	41	34	0	2	2
Middle	1	250	0	12	0	0	1
High school	1	700	0	23	0	1	1

No. of villages surveyed 97

Only one middle school was found in Nargosay village of Jokan area where 250 male students were taught by 12 male teachers. It has a damaged building with 14 rooms which belongs to the government. This middle school is funded by AGBASEd. One high school (Hesarak Ghalzai) was found in Shabak-e-Bala village where 700 male students are taught by 23 male teachers. It is funded by both the government and AGBASEd. According to the enumerators, the building of this school is destroyed and the students are studying in a hospital building (see Table 7.1-7.2 and Appendix Q and R).

**Table 7.2: School building**

Level of school	Building availability	Status of building		Building belongs to		No. of rooms in building
		damaged	undamaged	Government	Community	
Home	0	0	0	0	1	0
Primary	3	1	2	2	1	25
Middle	1	1	0	1	0	14
High school	0	0	0	0	0	0

Enumerators found only one madrassa (Noor ul Madaris) in Hesarak district. This madrassa is located in Nargosay village of Jokan area. It has 120 students and is funded by the government.

**Table 7.3: Number of literate people**

No. of villages surveyed	Male			Female		
	15-30	31-45	>45	15-30	31-45	>45
97	833	405	143	26	3	2

The data has demonstrated that there are 1,195 children aged 6-14 that have not attended school. The survey has recorded a total of 1,381 literate males and 3 literate females in Hesarak (see Table 7.3 and Appendix S). Of 97 villages, the vast majority (89 villages) expressed their interest for participation in the establishment of a school/Madrassa for their children (see Appendix S).

## 8. HEALTH

The surveyors only found one clinic, Hesarak Ghalzai, located in Shabak-e-Bala. The medical staff of the clinic included one male doctor and seven nurses. A total of 67 midwives were reported in the surveyed area. The clinic had 18 rooms but it was damaged. The clinic was funded by SCA and NAC.

The diseases recorded for adult are bronchitis, diarrhoea, malaria, pneumonia, TB and Typhoid. Children are generally infected by bronchitis, diarrhoea, malaria, pneumonia, typhoid and tansil.

## 9. LAND MINES

The existence of mines was recorded in roads, forests near villages, grazing land near villages and mountains (see Table 9.1 and Appendix T).

**Table 9.1: Mine location**

Location	No. of villages replied
In road	6
In forest near village	4
In grazing land near village	1
In mountains	2

A total of 29 deaths and 13 disabled people were recorded in 14 villages. A total of 105 animals were killed by the mines during the war (see Table 9.2 and Appendix T).

**Table 9.2: Mine victims**

No. of villages surveyed	No. of			
	villages reported	people		animals
		Died	disabled	died
97	14	29	13	105

## 10. INCOME GENERATION

A total of 336 male, 100 female and 15 disabled skilled people were reported in Hesarak district. Those people were barbers, blacksmiths, butchers, carpenters, cobblers, daily workers, drivers, embroiders, masons, mechanics, potters, tailors, watch makers and weavers. Most of the villagers (173) are busy in tailoring.

However, the highest average income was reported for driving (for more details see Tables 10.1 and 10.2 and Appendix U).

**Table 10.1: Number of skilled people**

No. Of villages surveyed	No. of skilled people		
	Male	Female	Disable
97	336	100	15

**Table 10.2: Type of skills and number of people involved in**

Type of skill	No. of people involved	Average income/day /person (Afs.)
Barber	13	44000
Blacksmith	51	55400
Butcher	1	70000
Carpentry	62	72800
Cobbler	1	30000
Daily working	8	60000
Driving	94	106500
Embroidery	1	40000
Masonry	18	85700
Mechanic	5	82500
Potters	8	40800
Tailoring	173	62400
Watch repairing	1	60000
Weaving	15	10000

Harvesting, lancing, ploughing, selling fire wood, harvesting hashish and weeding are the common seasonal productive activities which the villagers were involved in (for the income see Table 10.3 and Appendix V).

**Table 10.3: Seasonal productive activities**

Type of activities	Avg. Income (Afs.) day/person
Harvesting wheat	93500
Harvesting Hashish	120000
Lancing	108000
Ploughing	100000
Selling fire wood	65000
Weeding	75200

## 11. MARKET AND MARKET PRICES

There were a total of 79 shops scattered in the whole surveyed area. The majority of shops were cited to be general stores which provided essential daily items. Others were bakeries, blacksmith shops, butcheries, cloth stores, restaurants, medical stores, oil shops, vegetable shops and wood shops (see Tables 11.1 and Appendix W).

**Table 11.1: Type of shops**

Type of shops	No. of villages replied
Bakery	1
Black smith	1
Butcher	1
Cloth store	2
General store	21
Restaurant	2
Medical store	6
Oil shop	1
Vegetable shop	1
wood shop	1

Only one market was found in Shabak-e-Bala where almost all daily items were available there (For the products sold in this market see Table 11.2 Appendix X).

**Table 11.2: Food items and their prices**

Food item	Average Price (Afs.)	Unit
Sugar	200000	seer
Black tea	180000	kg
Green tea	170000	kg
Salt	17000	seer
Ghee	55000	kg
Flour	110000	seer
Rice	230000	seer
Bean	200000	seer
Mung bean	110000	seer
Lentil	180000	seer
Onion	50000	seer
Potato	60000	seer

## 12. UN AGENCIES/NGOs ACTIVITIES

A total of 12 governmental and non-governmental organizations were undertaking projects in the surveyed areas in different fields (for their names and activities see Table and Appendix Y).

**Table 12.1: List of active UN agencies and NGOs in Hesarak**

NGOs name	No. of villages replied
AGBASEd	5
ATC	1
DACAAR	46
FAO	1
GOVERNMENT	2
IRC	3
OMAR	3
RAFA	1
SCA	13
UNHCR	2
UNICEF	90
UNKNOWN	5

## 13. APPENDICES



## **Appendix A**

### **Survey Questionnaire**

## 1. INTRODUCTION

### 1.1 Background

Hesarak is a district located in far western Nangarhar province with an area of some 642 sq km with an agricultural population estimated at 37,230. To the east is Sherzad, in the north Sarobi, in the west Khak-e-Jabar, and in the south Azra district (Logar). Hesarak has 97 villages. Much of land in this district is mountainous especially in the west and the south, but the east slopes down to a high plain. Hesarak has good agricultural land producing a double crop each year. Both wheat and corn are grown.

Hesarak district is located at 34°:15'00"N latitude and 69°:59'00"E longitude. The elevation of the center of the district from the sea level is 1,600 meters, and the area remains relatively cooler than Jalalabad city during the summer seasons.

### 1.2 Objectives

The Baseline survey, carried out at the village level, was originally conceived with two main objectives. The first objective was to group all the villages by some measure of the extent of deprivation; the second objective, to provide a set of data that can be used as a benchmark. A by product of this survey is a better understanding of the geographical extent of settlement vis-à-vis social, economic and physical parameters considered important by the inhabitants.

In accordance with the survey, the emphasis of the objectives was placed on the following:

- To find out the size of the village;
- To provide data on the availability of basic services such as health, education, water, etc;
- To identify the accessibility of roads, markets, agriculture inputs, etc;
- To ascertain the income generation;
- To determine the illicit crop production and use of it;
- To find out activities of UN agencies and NGOs;

### 1.3 Survey Method

A survey questionnaire covering questions related to significant aspects of the villages was prepared. All questions were discussed with the supervisors and enumerators during training.

Three experienced survey teams (6 enumerators, 3 supervisors, and one field coordinator) underwent training and conducted the field survey. Each survey team, consisting of one supervisor, two enumerators and three local guide, conducted the survey at the village level. The supervisors were responsible for overseeing the fieldwork of the two enumerators and checking the questionnaires on the day of their completion. All three teams worked simultaneously in the targeted district. When all the villages in one district were surveyed they moved to another target district.

**UNOPS/ARRP/ACBAR BASELINE SURVEY  
MAY 2000**

Date: \_\_\_\_\_ Province: \_\_\_\_\_  
 Enumerator's code: \_\_\_\_\_ District: \_\_\_\_\_  
 Number of Interviewees in the group: \_\_\_\_\_ Main village: \_\_\_\_\_  
 Map No. \_\_\_\_\_ Sub-village: \_\_\_\_\_

**ALL QUESTIONS ABOUT THE VILLAGE:**

**I. GENERAL:**

**A. Specification of the village:**

1. Distance from the district center \_\_\_\_\_ Km
2. Ethnic groups living in the village by percentage;
 

a. _____ = _____ %	b. _____ = _____ %
c. _____ = _____ %	d. _____ = _____ %

**B. No. Of houses:**

1. Total No. of houses in the village. \_\_\_\_\_  
 Undamaged \_\_\_\_\_; Damaged \_\_\_\_\_; Destroyed \_\_\_\_\_

**C. Drinking water sources:**

1. What is the drinking water source of the village? List them by the percentage used;
 

1. _____ = _____ %	2. _____ = _____ %	3. _____ = _____ %
--------------------	--------------------	--------------------

a. River	d. Open well	g. Pond
b. Canal /Joy	e. Spring	h. Karez
c. Covered well	f. Pipe water	i. Others

specify) \_\_\_\_\_
2. How far is the mostly used drinking water source from the village? \_\_\_\_\_ Km

**D. Access road to the village:**

1. Is there access road to the village? Yes \_\_\_\_\_ No \_\_\_\_\_
2. If yes, what is the condition of the road? \_\_\_\_\_
 

a. Good	b. Fairly good	c. Bad
---------	----------------	--------
3. If no, how far is the village from the road? \_\_\_\_\_ Km

**E. Transportation:**

1. What kind of transportation is used by villagers? List them by the percentage used.
 

1. _____ = _____ %	2. _____ = _____ %	3. _____ = _____ %
--------------------	--------------------	--------------------

a. Vehicle	b. Horse	c. Donkey	d. Camel	e. Other _____
------------	----------	-----------	----------	----------------

**II. POPULATION AND REPATRIATION:****A. Population:**

1. Total No. of families in the village now \_\_\_\_\_
2. Average No. of people in the family \_\_\_\_\_
3. Average No. of children in the family below the age of 10 \_\_\_\_\_
4. Are there any nomad families living close to the village now? \_\_\_\_\_  
Yes \_\_\_\_\_ No \_\_\_\_\_
- 4.1 If yes, No. of families \_\_\_\_\_  
Total No. of disabled people in the village Male \_\_\_\_\_ Female \_\_\_\_\_
5. No. of widows in the village \_\_\_\_\_

**B. Repatriation:**

1. No. of families in the village before war \_\_\_\_\_
2. No. of families in the village have never been refugees or internally displaced. \_\_\_\_\_
3. No. of returned families: \_\_\_\_\_  
Completely \_\_\_\_\_ Partially \_\_\_\_\_ Total \_\_\_\_\_
4. No. of families still: Refugee \_\_\_\_\_ Displaced \_\_\_\_\_
5. Main problems in returning of refugee or displaced families:  
1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. \_\_\_\_\_  
a. Lack of houses b. Lack of food c. Unemployment  
d. Security e. Fighting  
f. Abandoned arable land g. Damaged irrigation system  
h. Other (specify) \_\_\_\_\_
6. How many families of the village are not originally from this village? \_\_\_\_\_

**III. AGRICULTURE:****A. Agricultural land in the village:**

1. Arable land: Irrigated: \_\_\_\_\_ J Rain-fed: \_\_\_\_\_ J Total: \_\_\_\_\_ J
2. Cultivated land: Irrigated: \_\_\_\_\_ J Rain-fed: \_\_\_\_\_ J Total: \_\_\_\_\_ J
3. Abandoned land: Irrigated: \_\_\_\_\_ J Rain-fed: \_\_\_\_\_ J Total: \_\_\_\_\_ J
- 3.1. Reason for abandonment : \_\_\_\_\_  
a. Mines b. Shortage of irrigation water c. Lack of farm power  
d. Other (specify) \_\_\_\_\_
4. Use of cultivated land and its percentage.  
a. Double cropped: \_\_\_\_\_ % b. Single cropped \_\_\_\_\_ %
5. Total Jeribs of orchards in the village \_\_\_\_\_ J
6. Is there any nursery/nurseries in the village? Yes \_\_\_\_\_ No \_\_\_\_\_
- 6.1. If yes: No. and acreage of fruit nurseries \_\_\_\_\_ J.  
No. and acreage of forest nurseries \_\_\_\_\_ J.

**B. Main crops grown and yield per Jerib:**

1. Wheat: Irrigated \_\_\_\_\_ Seer / Jerib  
Rain-fed \_\_\_\_\_ Seer / Jerib
2. Rice \_\_\_\_\_ Seer / Jerib
3. Maize \_\_\_\_\_ Seer / Jerib
4. Onion \_\_\_\_\_ Seer / Jerib
5. Potatoes \_\_\_\_\_ Seer / Jerib
6. Tomatoes \_\_\_\_\_ Seer / Jerib
7. Apple \_\_\_\_\_ Seer / Jerib \_\_\_\_\_ Seer / tree
8. Apricot \_\_\_\_\_ Seer / Jerib \_\_\_\_\_ Seer / tree
9. Grape \_\_\_\_\_ Seer / Jerib \_\_\_\_\_ Seer / tree
10. Pomegranates \_\_\_\_\_ Seer / Jerib \_\_\_\_\_ Seer / tree
11. Other (Specify) \_\_\_\_\_, \_\_\_\_\_ Seer / \_\_\_\_\_, \_\_\_\_\_ Seer /

**C. Do the villagers take their products to market? Yes \_\_\_\_\_ No \_\_\_\_\_**

If yes list them:

Cereals:	_____	_____	_____	_____
Pulses:	_____	_____	_____	_____
Fruit:	_____	_____	_____	_____
Vegetable:	_____	_____	_____	_____
Forage:	_____	_____	_____	_____
Animals:	_____	_____	_____	_____
Crafts:	_____	_____	_____	_____
Indus, crop:	_____	_____	_____	_____
Others:	_____	_____	_____	_____

**D. Farm power:**

1. No. of Oxen: \_\_\_\_\_
2. No. of tractors: \_\_\_\_\_
3. No. of Threshers: \_\_\_\_\_

**E. Use of improved seed, fertilizer and agrochemical:**

1. Do the farmers in the village grow improved seeds of :

	<u>Wheat</u>	<u>Maize</u>	<u>Rice</u>
	Y _____ N _____	Y _____ N _____	Y _____ N _____
If yes, Which varieties	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

- 1.1 Rate of sowing: \_\_\_\_\_ Seer / J \_\_\_\_\_ Seer / J

2. Do the farmers in the village use:

Fertilize

Y \_\_\_\_ N \_\_\_\_

Agrochemical

Y \_\_\_\_ N \_\_\_\_

Name Price/bag  
If yes, which \_\_\_\_\_,  
Type of them \_\_\_\_\_,  
\_\_\_\_\_

Name Price/unit  
\_\_\_\_\_,  
\_\_\_\_\_,  
\_\_\_\_\_

F. Busy time of the people throughout the year (Months) (solar year)

\_\_\_\_\_

#### IV. ILLICIT CROP PRODUCTION:

1. Do the people in the village grow:

Poppy

Yes \_\_\_\_ No \_\_\_\_

Hashish

Yes \_\_\_\_ No \_\_\_\_

1.1. If yes, total jeribs cultivated this year: \_\_\_\_\_ J \_\_\_\_\_ J

1.2. Yield per jerib \_\_\_\_\_ Kg \_\_\_\_\_ Kg

2. No. of addicts in the village: \_\_\_\_\_

3. Major reasons for growing illicit crop by the villagers.

1. \_\_\_\_\_ 2. \_\_\_\_\_
3. \_\_\_\_\_ 4. \_\_\_\_\_

#### V. IRRIGATION:

1. No. of irrigation water sources served the village and their percentage in irrigation of the irrigated land of the village.

Canal/stream Karez Spring Wells  
No. and percentage: \_\_\_\_\_, \_\_\_\_\_% \_\_\_\_\_, \_\_\_\_\_% \_\_\_\_\_, \_\_\_\_\_% \_\_\_\_\_, \_\_\_\_\_%

2. Does the water flow normally Y \_\_\_\_ N \_\_\_\_ Y \_\_\_\_ N \_\_\_\_ Y \_\_\_\_ N \_\_\_\_ Y \_\_\_\_ N \_\_\_\_

2.1. If no, what kind of work should be done for normal operation of them \_\_\_\_\_

- a. Canal cleaning b. Construction of diversion dam
- c. Repairing of related structures d. Cleaning of karez channel
- e. Extension of karez channel f. Cleaning of karez wells
- g. Other (specify) \_\_\_\_\_

3. Is there enough water in the irrigation system for the irrigation of irrigable land of the village? Yes \_\_\_\_\_ No \_\_\_\_\_
- 3.1 If no, the present water flow is enough for how much of the irrigable land? \_\_\_\_\_ %
4. In which months of the year there are shortage of irrigation water in the village and the proportion of flow during the shortage comparing to the normal flow?  
From \_\_\_\_\_ to \_\_\_\_\_, \_\_\_\_\_ %
5. What are the main reasons for irrigation water shortage at the above mentioned time?  
1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. \_\_\_\_\_

#### VI. LIVESTOCK AND POULTRY:

1. No. of livestock in the village owned by the villagers:  
Cattle \_\_\_\_\_ Sheep & Goat \_\_\_\_\_ Camel \_\_\_\_\_ Donkey \_\_\_\_\_ Horse \_\_\_\_\_  
Other \_\_\_\_\_  
(except oxen) \_\_\_\_\_
2. Average No. of chicken per family in the village? \_\_\_\_\_
- 2.1. What percent of the chicken in the village are of improved breeds? \_\_\_\_\_ %

#### VII. EDUCATION:

(Questions 1-6.3 should be asked from the school in-charge)

1. Is there any school in the village? Yes \_\_\_\_\_ No \_\_\_\_\_
- 1.1. If yes, what is the name of the school? \_\_\_\_\_
- 1.2 Year of establishment \_\_\_\_\_
- 1.3 What is the level of school?  
a. Home b. Primary, c. Middle, d. High school
2. The number of students gender-wise:  
Boys: \_\_\_\_\_; Girls: \_\_\_\_\_
3. Number of school age children (6-14) not attending school  
Boys \_\_\_\_\_ Girls \_\_\_\_\_
- 3.1. Total number of teachers in this school? \_\_\_\_\_
- 3.2. Number of; male teachers \_\_\_\_\_, female teachers \_\_\_\_\_
4. Who provides fund to this school?  
a. Government b. NGO (name \_\_\_\_\_) c. Community  
d. Other (specify) \_\_\_\_\_
5. Does the school have building? Yes \_\_\_\_\_ No \_\_\_\_\_
- 5.1. If yes, what is the status of building?  
Damaged \_\_\_\_\_ Undamaged \_\_\_\_\_
- 5.2 Number of rooms in the school building? \_\_\_\_\_
- 5.3 School building belongs to :  
a. Government b. Community c. rented

6. Is there any "Madrasa" in the village? Yes \_\_\_\_\_ No \_\_\_\_\_
- 6.1. If yes, what is the name of the Madrasa; \_\_\_\_\_
- 6.2. Total number of students in it? \_\_\_\_\_
- 6.3. Who provides fund to this Madrasa? \_\_\_\_\_
- a. Government b. NGO (name \_\_\_\_\_) c. Community
- d. Other (specify ) \_\_\_\_\_
7. No of literate people in the village
- Male: Female:
- 15-30 \_\_\_\_\_
- 31-45 \_\_\_\_\_
- >45 \_\_\_\_\_
8. If there is no school /Madrasa in the village, how far is the nearest school to the village? \_\_\_\_\_ km
9. Are parents interested to participate in the establishment of a school / Madrasa for their children? Yes \_\_\_\_\_ No \_\_\_\_\_

### VIII. HEALTH:

(Questions 1-2 should be asked from clinic's in-charge)

1. Is there any clinic in the village? Yes \_\_\_\_\_ No \_\_\_\_\_
- 1.1. If yes, clinic's name? \_\_\_\_\_
- 1.2. Does the clinic have any building? Yes \_\_\_\_\_ No \_\_\_\_\_
- 1.3. If yes, status of building: Damaged \_\_\_\_\_ Undamaged \_\_\_\_\_
- 1.4. Number of rooms of the clinic building? \_\_\_\_\_
- 1.5. Who provides fund for the clinic? \_\_\_\_\_
- a. Government b. NGO (name \_\_\_\_\_) c. community
- d. Other (specify) \_\_\_\_\_
- 1.6. No. of doctors (s) in the clinic \_\_\_\_\_
- 1.7. No. of nurse (s) in the clinic \_\_\_\_\_
2. Main diseases on seasonal bases in the village.
- |               | Spring | Summer | Fall  | Winter |
|---------------|--------|--------|-------|--------|
| 2.1 Adult:    | _____  | _____  | _____ | _____  |
|               | _____  | _____  | _____ | _____  |
|               | _____  | _____  | _____ | _____  |
| 2.2 Children: | _____  | _____  | _____ | _____  |
|               | _____  | _____  | _____ | _____  |
|               | _____  | _____  | _____ | _____  |
|               | _____  | _____  | _____ | _____  |
3. If there is no clinic in the village, how far is the nearest clinic to this village? \_\_\_\_\_ km



4. Is there any trained midwife(s) or medical health worker(s) available in the village?  
 Yes \_\_\_\_\_ No \_\_\_\_\_

4.1. If yes, how many? \_\_\_\_\_

#### IX. LAND MINES:

1. Is there any mined area affecting the village? Yes \_\_\_\_\_ No \_\_\_\_\_

1.1 If yes, where are the mine located?

1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. \_\_\_\_\_  
 a. In houses b. In roads c. In agricultural land  
 d. In irri. System e. In forest near village  
 f. In grazing land near village g. Other (specify) \_\_\_\_\_

2. No. of people and animals, died and disabled in the village by mine explosion so for:  
 Died disabled

People \_\_\_\_\_

Animals \_\_\_\_\_

#### X. INCOME GENERATION:

1. No. of skilled people in the village:

Male: \_\_\_\_\_ Female: \_\_\_\_\_

Disabled: \_\_\_\_\_

Type of skill	No. of people involved	Avg. Income derived /day/person
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

2. Seasonal productive activities in the village

Type	Time involved (months)	Avg. Income derived /day/person
_____	_____	_____
_____	_____	_____
_____	_____	_____

#### X. UN AGENCIES/ NGOs ACTIVITIES:

1. Is there any UN agency /NGO working in the village now or during the past five years?  
 Yes \_\_\_\_\_ No \_\_\_\_\_

1.1 If yes:

Name of NGO	Type of activity	Status of project
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

**XI. MARKET AND MARKET PRICES:****A. Availability of daily used items in the village:**

1. Is there any shop available in the village? Yes \_\_\_\_\_ No \_\_\_\_\_
2. If yes, how many shops are there? \_\_\_\_\_
3. Which kind of shops are they?
  1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. \_\_\_\_\_
  5. \_\_\_\_\_ 6. \_\_\_\_\_ 7. \_\_\_\_\_ 8. \_\_\_\_\_

(The following questions should be asked in the market)

Market Location: \_\_\_\_\_

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

**B. Food items:**

Name	Price (Afs)	Per unit
Sugar	_____	/ seer _____.
Black tea	_____	/ kg _____.
Green tea	_____	/ kg _____.
Salt	_____	/ seer _____.
Ghee	_____	/ kg _____.
Flour	_____	/ seer _____.
Rice	_____	/seer _____.
Bean	_____	/ seer _____.
Pea	_____	/ seer _____.
Mung bean	_____	/ seer _____.
Lentil	_____	/seer _____.
Onion	_____	/seer _____.
Potato	_____	/seer _____.
Exchange rate of the day: Afs. _____ = 1 US\$ Afs. _____ = Rs.1		

**C. Construction material:**

Name	Specification	Price (Afs/unit)
Wood beam	_____	_____ / _____
Dastak	_____	_____ / _____
Steel beam	_____	_____ / _____
Concrete beam	_____	_____ / _____
Slabs	_____	_____ / _____
Wooden door	_____	_____ / _____
Steel door	_____	_____ / _____
Wooden window	_____	_____ / _____
Steel window	_____	_____ / _____
Other	_____	_____ / _____

**D. Fuel item(s):**

<u>Name</u>	<u>Specification</u>	<u>Price (Afs)</u>
Fire wood	_____	_____ / seer
Diesel	_____	_____ / litter
Petrol	_____	_____ / litter
Kerosene	_____	_____ / litter
Other	_____	_____ /
	_____	_____ /
	_____	_____ /

**E. Other item (s):**

<u>Name</u>	<u>Specification</u>	<u>Price/ unit</u>
_____	_____	/ _____
_____	_____	/ _____
_____	_____	/ _____
_____	_____	/ _____
_____	_____	/ _____
_____	_____	/ _____
_____	_____	/ _____
_____	_____	/ _____

**Appendices B-Y**  
**Survey Results at village level**

For the purpose of this survey, a village was defined as a congregation of households having a separate and distinct boundary for its agricultural land. It was the most practical and accurate way because every villager knows the boundaries of their agricultural land. Furthermore, it was also recognized by its inhabitants as a social entity suitable for representation by a common shura. One survey form was completed for each such village regardless of its size. The survey covered all villages in the targeted district.

From each village prominent residents (tribal elders, landowners, and other important and knowledgeable individuals) gathered for a group interview, with at least one interviewee being the village elder. The average number of people who participated in the group interview was seven, but this varied according to the size of the village.

After the completion of the interviews, the forms were checked (by the supervisor), cross-checked (by the field coordinator), and edited for possible correction. Each enumerator carried a notebook to record some important information which was not covered in the questionnaire. For example, it was found that certain areas which were defined as one village were in actuality more than one village or vice versa. This information noted by the enumerators is important for insuring an accurate profile of Hesarak, which can be used to update ProMIS maps.

In each survey site, all parts of the questionnaire were filled and the map of each survey site was marked according to the instructions given during training. The ASU Field Coordinator supervised and monitored the fieldwork of this survey and the performance of supervisors.

Enumerators were debriefed at the end of fieldwork. Both the training and debriefing of the enumerators took place in Peshawar.

The survey report includes an analysis of the patterns of human settlement, covering the validity of the concept of the village as used for the survey and the relationship between villages, village clusters and districts.

The results of the survey are presented on district basis. This report is structured for ease of reference with appropriate tables presented with text and relevant lists (at village level) in the Appendices.

Appendix B: Population of Hesarak district

S/No.	Main village	Sub village	Total No. of families	Avg. No		nomad families	Number of disabled			% Ethnic groups
				people/family	children		male	female	widows	
1	Abizangani	Boday Now	38	10	4	0	0	0	2	100
2	Abizangani	Do Aab	35	9	4	0	1	0	0	100
3	Abizangani	Gulab Khel	23	8	4	0	0	2	1	100
4	Abizangani	Jamal Khel	4	8	3	0	0	0	0	100
5	Abizangani	Kok Darah	32	6	4	0	2	1	4	100
6	Abizangani	Lawar Khel	60	9	5	0	7	3	10	100
7	Abizangani	Ozba Khel	10	7	5	0	1	0	0	100
8	Abizangani	Qader Khel	55	7	4	0	0	0	2	100
9	Abizangani	Sharif Khel	25	9	4	0	3	2	7	100
10	Abizangani	Shinwari	15	7	3	0	0	0	0	100
11	Abizangani	Wati	55	12	5	0	10	5	15	100
12	Alam kas		35	14	5	0	1	0	3	100
13	Ali Khel		30	9	4	0	2	0	3	100
14	Bawlay		80	9	3	0	5	0	10	100
15	Chartoot		115	10	4	0	10	3	4	100
16	Chorchang		40	11	3	0	1	0	4	100
17	Dobi		30	12	5	0	3	0	3	100
18	Ganju Khel		21	9	4	0	2	0	0	100
19	Gari	Gari	25	7	3	0	3	0	1	100
20	Gari	Maeen Gari	10	10	4	0	0	0	2	100
21	Gari	Sar Gari	5	12	6	0	0	0	1	100
22	Gari	Ziarat Kalay	11	13	5	0	1	0	0	100
23	Gazak		30	8	3	0	2	1	4	100
24	Ghwagiza	Adam Khel	10	8	4	0	0	0	1	100
25	Ghwagiza	Alam Khel	8	10	3	0	3	2	0	100
26	Ghwagiza	Ali Sher	50	11	4	0	0	0	2	100
27	Ghwagiza	Bogian	12	10	3	0	2	0	3	100
28	Ghwagiza	Dargian	25	8	3	0	3	0	3	100

Appendix B: Population of Hesarak district (Cont...)

S/No.	Main village	Sub village	Total No. of families	Avg. No		nomad families	Number of disabled			% Ethnic groups
				people/family	children		male	female	widows	
29	Ghwagiza	Injabat Khel	15	9	3	0	2	1	0	100
30	Ghwagiza	Kabalo kas	10	11	4	0	2	0	0	100
31	Ghwagiza	Karim-Khel	50	11	5	0	2	0	3	100
32	Ghwagiza	Khengay	22	10	3	0	2	0	0	100
33	Ghwagiza	Mia Khel	40	10	3	0	3	1	2	100
34	Ghwagiza	Mana Khel	40	8	5	0	6	2	2	100
35	Ghwagiza	Saplai Jawara	55	8	3	0	0	0	2	100
36	Ghwagiza	Sra	50	9	3	0	4	3	0	100
37	Gad Khel		35	10	4	0	0	0	7	100
38	Gulo Khel		140	10	4	0	0	0	5	100
39	Hadira Kas		20	13	5	0	0	0	0	100
40	Halim Khel		27	11	5	0	4	1	1	100
41	Hasan Kas		21	8	3	0	0	0	2	100
42	Jabai		26	10	3	0	1	0	0	100
43	Jokan	Arab Khel	65	8	4	0	2	1	5	100
44	Jokan	Baro Shekhan	16	10	4	0	2	0	0	100
45	Jokan	Sakan	15	9	3	0	0	0	4	100
46	Jokan	Durullah Khel	15	9	4	0	1	1	0	100
47	Jokan	Ghazi Qala	80	12	5	0	6	4	8	100
48	Jokan	Kamarkay Shekhan	60	10	5	0	6	4	8	100
49	Jokan	Khanami Kote	25	10	5	0	2	1	7	100
50	Jokan	Khanano Kalay	21	9	4	0	0	0	0	100
51	Jokan	Kharoti	25	12	5	20	2	1	5	100
52	Jokan	Landi Shekhan	43	9	3	0	4	1	4	100
53	Jokan	Nargosay	50	9	3	5	4	1	2	100
54	Jokan	Saraw	5	11	5	0	0	0	0	100
55	Jokan	Shinshobey	7	9	4	0	0	0	1	100
56	Jokan	Shinwari	20	11	5	0	2	0	1	100
57	Jokan	Teray	10	12	6	5	1	0	0	100

Appendix B: Population of Hesarak district (Cont...)

S/No.	Main village	Sub village	Total No. of families	Avg. No		nomad families	Number of disabled			% Ethnic groups Pushtun
				people/family	children		male	female	widows	
58	Kaday		15	9	3	0	2	0	2	100
59	Khanjar		70	10	4	0	12	0	5	100
60	Khomar Khel	Malakan	50	9	5	0	2	0	2	100
61	Kolala	Bara Kolala	11	12	3	0	1	0	3	100
62	Kolala	Koza Kolala	25	10	4	0	1	1	0	100
63	Lajgar	Lajgar	250	11	5	6	20	10	10	100
64	Lajgar	Sarwar Bagh	20	9	3	0	0	0	2	100
65	Langar khel		86	9	3	0	6	4	4	100
66	Mia Sahib Kalay		58	12	6	0	0	3	1	100
67	Miagan		30	11	4	0	0	0	4	100
68	Malakan		18	11	5	0	1	0	0	100
69	Mansur China		27	12	4	15	8	0	1	100
70	Mardar Dand		10	8	3	0	2	2	1	100
71	Miz Ghondi		62	7	4	15	1	0	7	100
72	Mohammadi		50	8	4	5	6	1	1	100
73	Many Shar		17	14	5	0	0	0	0	100
74	Naser Khel		25	11	5	0	6	2	2	100
75	Nawar	Chahartut	30	9	3	5	5	4	5	100
76	Nawar	Dagyan	50	10	4	0	3	1	4	100
77	Nawar	Dando	55	8	3	0	6	0	0	100
78	Nawar	Spina Qala	69	8	3	0	2	4	4	100
79	Parjina		44	9	3	0	4	0	1	100
80	Qalaqay		35	10	3	6	5	2	3	100
81	Qazyar		6	10	4	0	2	0	0	100
82	Ragha	Ragha	70	8	3	0	5	0	1	100
83	Ragha	Bostan Khel	28	14	5	0	0	0	0	100
84	Ragha	Naser Khel	40	10	3	0	0	0	0	100
85	Sarando Kalay		120	8	4	0	6	0	10	100
86	Seyaw Bala		40	12	5	0	4	4	6	100



Appendix B: Population of Hesarak district (Cont...)

S/No.	Main village	Sub village	Total No. of families	Avg. No		nomad families	Number of disabled			% Ethnic groups
				people/family	children		male	female	widows	
87	Seyaw Payan		40	10	4	0	3	2	3	100
88	Shabak	Landy Shabak	55	9	3	0	2	2	0	100
89	Shabak	Shabak-e-Bala	33	8	4	8	4	0	0	100
90	Sinzi		28	10	5	0	5	3	3	100
91	Tomany	Koro Naw	15	12	6	2	2	1	2	100
92	Tomany	Oghuz	14	8	4	0	2	0	3	100
93	Tori Khel		51	10	5	0	2	1	1	100
94	Wodisar		30	8	3	0	6	8	6	100
95	Yaghi Band		32	11	3	0	0	0	0	100
96	Yakakhak		7	10	5	10	0	0	0	100
97	Zarif Khel		110	12	5	0	5	2	10	100

Appendix C: Repatriation in Hesarak district

S/No	Main village	Sub village	No. of families before ware	No. of families never been refugee or displaced	No. of returned families			No. of families from other villages	No. of families still refugee	No. of families still displaced
					completely	partially	total			
1	Abizangani	Boday Now	28	0	38	0	38	0	20	0
2	Abizangani	Do Aab	25	0	35	0	35	0	13	0
3	Abizangani	Gulab Khel	17	4	13	0	13	6	9	0
4	Abizangani	Jamal Khel	40	0	4	0	4	0	50	0
5	Abizangani	Kok Darah	25	0	32	0	32	0	20	0
6	Abizangani	Lawar Khel	200	0	60	0	60	0	210	0
7	Abizangani	Ozba Khel	95	0	10	0	10	0	110	0
8	Abizangani	Qader Khel	80	0	55	0	55	0	100	0
9	Abizangani	Sharif Khel	26	0	24	1	25	0	25	0
10	Abizangani	Shinwari	18	2	8	0	8	5	12	0
11	Abizangani	Wati	200	0	40	15	55	0	200	0
12	Alam kas		40	0	24	10	34	1	37	0
13	Ali Khel		20	0	15	10	25	5	10	0
14	Bawlay		70	0	80	0	80	0	70	0
15	Chartoot		65	15	70	20	90	10	40	0
16	Chorchang		32	6	31	0	31	3	45	0
17	Dobi		40	0	30	0	30	0	25	0
18	Ganju Khel		22	1	13	0	13	7	25	0
19	Gari	Gari	20	6	17	0	17	2	16	0
20	Gari	Maeen Gari	20	0	8	2	10	0	35	0
21	Gari	Sar Gari	30	0	5	0	5	0	50	3
22	Gari	Ziarat Kalay	30	0	10	1	11	0	50	0
23	Gazak		30	5	23	0	23	2	35	0
24	Ghwagiza	Adam Khel	22	0	10	0	10	0	20	2
25	Ghwagiza	Alam Khel	38	0	6	2	8	0	45	0
26	Ghwagiza	Ali Sher	90	0	40	10	50	0	50	20
27	Ghwagiza	Bogian	25	0	12	0	12	0	23	0
28	Ghwagiza	Dargian	64	0	23	2	25	0	60	0
29	Ghwagiza	Injabat Khel	42	0	5	10	15	0	30	10

Appendix C: Repatriation in Hesarak district (Cont..)

S/No	Main village	Sub village	No. of families before ware	No. of families never been refugee or displaced	No. of returned families			No. of families from other villages	No. of families still refugee	No. of families still displaced
					completely	partially	total			
30	Ghwagiza	Kabalo kas	30	0	10	0	10	0	40	4
31	Ghwagiza	Karim-Khel	40	0	48	1	49	1	20	0
32	Ghwagiza	Khengay	60	0	17	5	22	0	24	6
33	Ghwagiza	Mia Khel	50	0	39	0	39	1	37	3
34	Ghwagiza	Mana Khel	30	0	35	5	40	0	50	0
35	Ghwagiza	Saplai Jawara	20	0	49	6	55	0	5	3
36	Ghwagiza	Sra	120	0	48	2	50	0	100	0
37	Gad Khel		35	4	27	4	31	0	14	0
38	Gulo Khel		80	65	45	25	70	5	30	10
39	Hadira Kas		10	0	2	2	4	16	30	5
40	Halim Khel		25	5	21	0	21	1	10	4
41	Hasan Kas		24	5	13	0	13	3	9	0
42	Jabai		24	6	13	3	16	4	8	2
43	Jokan	Arab Khel	50	5	48	0	48	12	60	0
44	Jokan	Baro Shekhan	32	0	13	0	13	3	60	5
45	Jokan	Sakan	19	0	15	0	15	0	40	0
46	Jokan	Durullah Khel	30	0	11	0	11	4	32	0
47	Jokan	Ghazi Qala	40	0	80	0	80	0	40	10
48	Jokan	Kamarkay Shekhan	80	10	40	2	42	8	120	12
49	Jokan	Khanami Kote	30	2	13	2	15	8	40	0
50	Jokan	Khanano Kalay	15	0	18	0	18	3	10	6
51	Jokan	Kharoti	30	5	20	0	20	0	25	2
52	Jokan	Landi Shekhan	27	0	43	0	43	0	20	0
53	Jokan	Nargosay	43	3	27	10	37	10	40	0
54	Jokan	Saraw	9	3	2	0	2	0	12	0
55	Jokan	Shinshobey	9	7	0	0	0	0	16	0
56	Jokan	Shinwari	30	15	5	0	5	0	20	0
57	Jokan	Teray	10	3	5	0	5	2	8	0
58	Kaday		15	8	6	1	7	0	12	0

Appendix C: Repatriation in Hesarak district (Cont..)

S/No	Main village	Sub village	No. of families before ware	No. of families never been refugee or displaced	No. of returned families			No. of families from other villages	No. of families still refugee	No. of families still displaced
					completely	partially	total			
59	Khanjar		50	15	52	3	55	0	4	0
60	Khomar Khel	Malakan	30	0	30	5	35	15	25	0
61	Kolala	Bara Kolala	6	0	10	0	10	1	0	0
62	Kolala	Koza Kolala	60	0	25	0	25	0	90	0
63	Lajgar	Lajgar	300	20	205	0	205	25	270	0
64	Lajgar	Sarwar Bagh	18	2	18	0	18	0	30	0
65	Langar khel		48	0	69	0	69	17	20	7
66	Mia Sahib Kalay		55	13	31	6	37	8	20	0
67	Miagan		32	0	29	1	30	0	48	0
68	Malakan		20	0	15	0	15	3	16	4
69	Mansur China		140	0	23	2	25	2	180	0
70	Mardar Dand		5	1	8	0	8	1	4	0
71	Miz Ghondi		40	10	40	0	40	12	2	8
72	Mohammadi		70	0	50	0	50	0	100	0
73	Many Shar		10	0	13	4	17	0	6	0
74	Naser Khel		50	0	20	0	20	5	65	0
75	Nawar	Chahartut	25	10	16	3	19	1	10	5
76	Nawar	Dagyan	28	2	44	0	44	4	6	2
77	Nawar	Dando	25	8	39	0	39	8	18	0
78	Nawar	Spina Qala	35	8	49	7	56	5	6	0
79	Parjina		20	6	33	3	36	2	10	3
80	Qalaqay		40	4	31	0	31	0	25	5
81	Qazyan		10	2	3	0	3	1	15	0
82	Ragha	Ragha	45	12	50	3	53	5	20	0
83	Ragha	Bostan Khel	20	8	15	5	20	0	10	4
84	Ragha	Naser Khel	34	8	20	10	30	2	10	5
85	Sarando Kalay		50	30	70	5	75	15	15	0
86	Seyaw Bala		45	0	40	0	40	0	30	0
87	Seyaw Payan		25	0	40	0	40	0	6	0

Appendix C: Repatriation in Hesarak district (Cont..)

S/No	Main village	Sub village	No. of families before ware	No. of families never been refugee or displaced	No. of returned families			No. of families from other villages	No. of families still refugee	No. of families still displaced
					completely	partially	total			
88	Shabak	Landy Shabak	27	0	44	5	49	6	15	0
89	Shabak	Shabak-e-Bala	26	2	23	0	23	8	4	0
90	Sinzi		30	0	28	0	28	0	19	0
91	Tomany	Koro Naw	22	5	10	0	10	0	20	0
92	Tomany	Oghuz	15	0	14	0	14	0	18	0
93	Tori Khel		70	0	45	0	45	6	45	1
94	Wodisar		32	6	16	0	16	8	9	0
95	Yaghi Band		24	0	30	0	30	2	50	0
96	Yakakhak		20	0	7	0	7	0	28	0
97	Zarif Khel		70	5	90	0	90	15	15	0

Appendix D: Repatriation problems in Hesarak district

			Main problems in returning of refugees							
S/No	Main village	Sub village	A	B	C	D	E	F	G	H
1	Abizangani	Boday Now	√	√	√	-	-	-	√	Land damaged by flood
2	Abizangani	Do Aab	√	√	√	-	-	-	-	-
3	Abizangani	Gulab Khel	√	√	√	-	-	-	-	-
4	Abizangani	Jamal Khel	√	-	√	-	-	-	-	-
5	Abizangani	Kok Darah	√	√	√	-	-	-	-	-
6	Abizangani	Lawar Khel	√	√	√	-	-	-	√	-
7	Abizangani	Ozba Khel	√	√	√	-	-	-	-	-
8	Abizangani	Qader Khel	√	√	√	-	-	-	-	-
9	Abizangani	Sharif Khel	√	√	√	-	-	-	-	Land damaged by flood
10	Abizangani	Shinwari	√	-	√	-	-	-	-	-
11	Abizangani	Wati	√	√	√	-	-	-	-	Land damaged by flood
12	Alam kas		√	√	√	-	-	-	-	-
13	Ali Khel		√	√	√	-	-	√	√	-
14	Bawlay		√	√	√	-	-	-	-	-
15	Chartoot		√	-	√	-	-	√	-	-
16	Chorchang		√	-	√	-	-	-	-	-
17	Dobi		√	√	√	-	-	-	-	Lack of well
18	Ganju Khel		√	√	√	-	-	-	-	-
19	Gari	Gari	√	-	√	-	-	-	-	-
20	Gari	Maeen Gari	√	√	√	-	-	-	-	-
21	Gari	Sar Gari	√	√	√	-	-	-	-	-
22	Gari	Ziarat Kalay	√	√	√	-	-	-	-	-
23	Gazak		√	√	√	-	-	-	-	Lack of well
24	Ghwagiza	Adam Khel	√	√	√	-	-	-	-	-
25	Ghwagiza	Alam Khel	√	√	√	-	-	-	-	-
26	Ghwagiza	Ali Sher	√	√	√	-	-	-	-	-

Appendix D: Repatriation problems in Hesarak district (Cont..)

S/No	Main village	Sub village	Main problems in returning of refugees							
			A	B	C	D	E	F	G	H
27	Ghwagiza	Bogian	√	√	√	-	-	-	-	-
28	Ghwagiza	Dargian	√	√	√	-	-	√	-	-
29	Ghwagiza	Injabat Khel	√	√	√	-	-	-	-	-
30	Ghwagiza	Kabalo kas	√	-	√	-	-	-	-	Lack of road and school
31	Ghwagiza	Karim-Khel	√	-	√	-	-	-	-	-
32	Ghwagiza	Khengay	√	√	√	-	-	-	-	Lack of road, school and clinic
33	Ghwagiza	Mia Khel	√	√	√	-	-	√	-	-
34	Ghwagiza	Mana Khel	√	-	√	-	-	-	-	Lack of land
35	Ghwagiza	Saplai Jawara	√	√	√	-	-	-	-	Lack of clinic and school
36	Ghwagiza	Sra	√	-	√	-	-	-	-	Lack of road, school and clinic
37	Gad Khel		√	√	√	-	-	-	-	-
38	Gula Khel		√	√	√	-	-	-	-	-
39	Hadira Kas		√	-	√	-	-	-	-	-
40	Halim Khel		√	√	√	-	-	-	-	-
41	Hasan Kas		√	-	√	-	-	-	-	-
42	Jabai		√	√	√	-	-	-	-	-
43	Jokan	Arab Khel	√	√	√	-	-	-	√	-
44	Jokan	Baro Shekhan	√	√	√	-	-	-	√	-
45	Jokan	Sakan	√	√	√	-	-	-	-	-
46	Jokan	Durullah Khel	√	√	√	-	-	-	-	-
47	Jokan	Ghazi Qala	√	√	√	-	-	-	-	-
48	Jokan	Kamarkay Shekhan	√	√	√	-	-	-	-	-
49	Jokan	Khanami Kote	√	√	√	-	-	-	-	-
50	Jokan	Khanano Kalay	√	√	√	-	-	-	-	-
51	Jokan	Kharoti	√	√	√	-	-	-	-	-
52	Jokan	Landi Shekhan	√	√	√	-	-	-	-	-

## 2. GENERAL INFORMATION

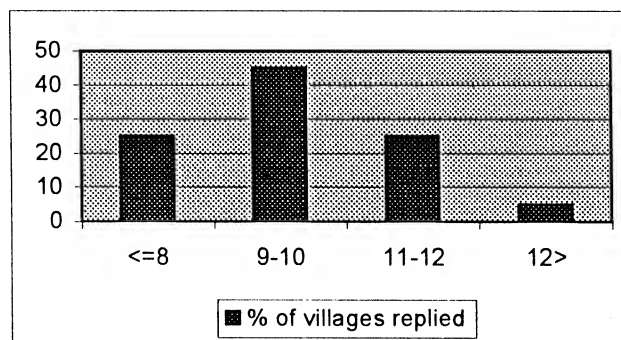
### 2.1 Population

The survey results indicate that there are a total of 3,723 families living in 97 villages of Hesarak district. The average family size contained 10 people out of which four were found to be children. Thus the total population of Hesarak can be estimated at 37,230 people. Lajgar village, where 250 families were living was found to be the most populated village in Hesarak. While Jamal Khel, having only four families, was found to be the least populated village. Kochi families regularly visiting the area were estimated at 102 in 12 villages. Kharoti was the village in which the maximum 20 nomad families were reported. A total of 359 disabled people were reported in the surveyed villages. 261 widows were found in Hesarak. In term of ethnic group, all people living in Hesarak district are Pushtun (see Table 2.1, Figure 2.1 and Appendix B).

**Table 2.1: Population**

No. of villages surveyed	Total No. of families	% of villages having nomads	nomad families	Disabled		No. of widows
				Male	Female	
97	3723	12	102	261	98	261

**Figure 2.1: Distribution of people per household**



### 2.2 Repatriation

The survey estimated that a total of 4,143 families were living in Hesarak before war. A total of 3,062 families have returned to the survey area, however, 3,651 families have still not returned from neighboring countries at the time of the survey. In terms of IDPs, 151 families were reported to still be living in other parts of Afghanistan. The secure situation plus proper condition for cultivation enticed 299 families to come to Hesarak from other parts of Afghanistan (see Table 2.2 and Appendix C).



Appendix D: Repatriation problems in Hesarak district (Cont..)

S/No	Main village	Sub village	Main problems in returning of refugees							
			A	B	C	D	E	F	G	H
53	Jokan	Nargosay	√	√	√	-	-	-	-	-
54	Jokan	Saraw	√	√	√	-	-	-	-	-
55	Jokan	Shinshobey	√	√	√	-	-	-	-	-
56	Jokan	Shinwari	√	-	√	-	-	-	-	-
57	Jokan	Teray	√	√	-	-	-	-	√	-
58	Kaday		√	-	√	-	-	-	-	-
59	Khanjar		√	√	√	-	-	-	-	-
60	Khomar Khel	Malakan	√	-	√	-	-	√	√	Lack of school
61	Kolala	Bara Kolala	-	-	-	-	-	-	-	-
62	Kolala	Koza Kolala	√	√	√	-	-	-	-	-
63	Lajgar	Lajgar	√	√	√	-	-	-	-	Damaged of Karez
64	Lajgar	Sarwar Bagh	√	√	√	-	-	-	-	-
65	Langar khel		√	-	√	-	-	-	-	Lack of clinic
66	Mia Sahib Kalay		√	√	√	-	-	-	-	Land damaged by flood
67	Miagan		√	√	√	-	-	-	-	-
68	Malakan		√	-	√	-	-	-	-	-
69	Mansur China		√	-	√	-	-	-	-	Lack of clinic and school
70	Mardar Dand		√	√	√	-	-	-	-	-
71	Miz Ghondi		√	√	√	-	-	-	-	-
72	Mohammadi		√	√	-	-	-	-	-	-
73	Many Shar		√	√	√	-	-	-	-	-
74	Naser Khel		√	√	√	-	-	-	-	Lack of clinic and school
75	Nawar	Chahartut	√	-	√	-	-	-	-	Lack of school
76	Nawar	Dagyan	√	-	√	-	-	-	-	-
77	Nawar	Dando	√	√	√	-	-	-	-	-
78	Nawar	Spina Qala	√	-	√	-	-	-	-	Lack of school

Appendix D: Repatriation problems in Hesarak district (Cont..)

S/No	Main village	Sub village	Main problems in returning of refugees							
			A	B	C	D	E	F	G	H
79	Parjina		√	√	√	-	-	-	-	-
80	Qalaqay		-	-	√	-	-	-	√	Lack of school
81	Qazyan		√	-	√	-	-	-	-	-
82	Ragha	Ragha	√	-	√	-	-	-	-	-
83	Ragha	Bostan Khel	√	√	√	-	-	-	-	-
84	Ragha	Naser Khel	√	-	√	-	-	-	-	-
85	Sarando Kalay		√	-	√	-	-	√	√	-
86	Seyaw Bala		√	√	√	-	-	-	√	-
87	Seyaw Payan		√	√	√	-	-	-	-	-
88	Shabak	Landy Shabak	√	-	√	-	-	-	-	-
89	Shabak	Shabak-e-Bala	-	-	√	-	-	-	-	-
90	Sinzi		√	√	√	-	-	-	-	Lack of land
91	Tomany	Koro Naw	√	√	√	-	-	-	-	-
92	Tomany	Oghuz	√	√	√	-	-	-	√	-
93	Tori Khel		√	√	√	-	-	-	-	Land damaged by flood
94	Wodisar		√	-	√	-	-	-	-	-
95	Yaghi Band		√	√	√	-	-	-	√	-
96	Yakakhak		√	√	√	-	-	-	-	-
97	Zarif Khel		√	√	√	-	-	-	-	Land damaged by flood

A= Lack of houses

B= Lack of food

C= Unemployment

D= Security

E= Fighting

F= Abandoned arable land

G= Damaged irrigation system

H= Other (specify)

Appendix E: Housing status in Hesarak district

S/No	Main village	Sub Village	Total No of houses	Number of houses		
				Undamaged	Damaged	Destroyed
1	Abizangani	Boday Now	30	30	0	0
2	Abizangani	Do Aab	30	15	10	5
3	Abizangani	Gulab Khel	19	12	3	4
4	Abizangani	Jamal Khel	35	20	5	10
5	Abizangani	Kok Darah	34	14	10	10
6	Abizangani	Lawar Khel	140	20	40	80
7	Abizangani	Ozba Khel	110	5	5	100
8	Abizangani	Qader Khel	75	30	15	30
9	Abizangani	Sharif Khel	25	10	5	10
10	Abizangani	Shinwari	14	8	3	3
11	Abizangani	Wati	160	40	30	90
12	Alam kas		35	20	5	10
13	Ali Khel		18	12	4	2
14	Bawlay		90	30	20	40
15	Chartoot		65	48	10	7
16	Chorchang		25	15	7	3
17	Dobi		45	10	20	15
18	Ganju Khel		25	15	5	5
19	Gari	Gari	15	6	4	5
20	Gari	Maeen Gari	18	8	2	8
21	Gari	Sar Gari	25	5	4	16
22	Gari	Ziarat Kalay	25	6	5	14
21	Gazak		30	10	10	10
24	Ghwagiza	Adam Khel	20	8	2	10
25	Ghwagiza	Alam Khel	35	3	0	32
26	Ghwagiza	Ali Sher	80	50	10	20
27	Ghwagiza	Bogian	20	7	3	10
28	Ghwagiza	Dargian	60	4	20	36
29	Ghwagiza	Injabat Khel	40	6	8	26
30	Ghwagiza	Kabalo kas	25	7	3	15
31	Ghwagiza	Karim-Khel	20	13	2	5

Appendix E: Housing status in Hesarak district (Cont..)

S/No	Main village	Sub Village	Total No of houses	Number of houses		
				Undamaged	Damaged	Destroyed
32	Ghwagiza	Khengay	22	9	8	5
33	Ghwagiza	Mia Khel	45	20	15	10
34	Ghwagiza	Mana Khel	40	15	21	4
35	Ghwagiza	Saplai Jawara	27	19	5	3
36	Ghwagiza	Sra	75	30	20	25
37	Gad Khel		35	10	20	5
38	Gula Khel		50	40	10	0
39	Hadira Kas		16	6	4	6
40	Halim Khel		22	11	5	6
41	Hasan Kas		16	10	4	2
42	Jabai		20	11	5	4
43	Jokan	Arab Khel	44	20	16	8
44	Jokan	Baro Shekhan	30	14	6	10
45	Jokan	Sakan	13	6	3	4
46	Jokan	Durullah Khel	20	0	15	5
47	Jokan	Ghazi Qala	60	30	20	10
48	Jokan	Kamarkay Shekhan	40	10	20	10
49	Jokan	Khanami Kote	30	3	17	10
50	Jokan	Khanano Kalay	10	3	5	2
51	Jokan	Kharoti	16	3	10	3
52	Jokan	Landi Shekhan	24	9	5	10
53	Jokan	Nargosay	35	18	10	7
54	Jokan	Saraw	9	5	4	0
55	Jokan	Shinshobey	9	9	0	0
56	Jokan	Shinwari	15	5	8	2
57	Jokan	Teray	8	2	5	1
58	Kaday		18	4	10	4
59	Khanjar		40	30	10	0
60	Khomar Khel	Malakan	30	18	7	5
61	Kolala	Bara Kolala	8	5	3	0
62	Kolala	Koza Kolala	60	10	20	30

Appendix E: Housing status in Hesarak district (Cont..)

S/No	Main village	Sub Village	Total No of houses	Number of houses		
				Undamaged	Damaged	Destroyed
63	Lajgar	Lajgar	120	11	90	19
64	Lajgar	Sarwar Bagh	18	18	0	0
65	Langar khel		40	30	9	1
66	Mia Sahib Kalay		50	30	10	10
67	Miagan		20	6	10	4
68	Malakan		25	12	10	3
69	Mansur China		120	20	35	65
70	Mardar Dand		8	6	2	0
71	Miz Ghondi		35	30	3	2
72	Mohammadi		70	30	20	20
73	Many Shar		10	8	2	0
74	Naser Khel		38	12	6	20
75	Nawar	Chahartut	45	15	15	15
76	Nawar	Dagyan	25	14	6	5
77	Nawar	Dando	22	12	5	5
78	Nawar	Spina Qala	30	5	15	10
79	Parjina		38	9	20	9
80	Qalaqay		20	15	3	2
81	Qazyan		12	5	1	6
82	Ragha	Ragha	32	21	4	7
83	Ragha	Bostan Khel	10	6	2	2
84	Ragha	Naser Khel	30	20	5	5
85	Sarando Kalay		50	35	9	6
86	Seyaw Bala		40	10	20	10
87	Seyaw Payan		30	10	20	0
88	Shabak	Landy Shabak	25	10	10	5
89	Shabak	Shabak-e-Bala	30	20	6	4
90	Sinzi		25	10	4	11
91	Tomany	Koro Naw	12	4	8	0
92	Tomany	Oghuz	12	4	5	3
93	Tori Khel		45	30	10	5

Appendix E: Housing status in Hesarak district (Cont..)

S/No	Main village	Sub Village	Total No of houses	Number of houses		
				Undamaged	Damaged	Destroyed
94	Wodisar		27	18	5	4
95	Yaghi Band		25	17	5	3
96	Yakakhak		16	5	4	7
97	Zarif Khel		70	40	30	0

Appendix F: Drinking water sources in Hesarak district

% of sources used											
S/NO.	Main village	Sub village	River Canal/Joy		Weel		Spring	Pipe water	Pond	Karez	Distance of mostly used source (Km)
					Covered	Open					
1	Abizangani	Boday Now	100	0	0	0	0	0	0	0	0.0
2	Abizangani	Do Aab	0	0	0	0	100	0	0	0	0.0
3	Abizangani	Gulab Khel	0	100	0	0	0	0	0	0	0.0
4	Abizangani	Jamal Khel	100	0	0	0	0	0	0	0	0.0
5	Abizangani	Kok Darah	20	80	0	0	0	0	0	0	0.0
6	Abizangani	Lawar Khel	100	0	0	0	0	0	0	0	0.0
7	Abizangani	Ozba Khel	100	0	0	0	0	0	0	0	0.0
8	Abizangani	Qader Khel	80	0	0	0	20	0	0	0	0.0
9	Abizangani	Sharif Khel	100	0	0	0	0	0	0	0	0.3
10	Abizangani	Shinwari	0	100	0	0	0	0	0	0	0.3
11	Abizangani	Wati	100	0	0	0	0	0	0	0	0.2
12	Alam kas		0	0	0	0	100	0	0	0	0.5
13	Ali Khel		0	20	80	0	0	0	0	0	0.0
14	Bawlay		0	0	0	0	0	0	0	100	0.0
15	Chartoot		0	80	20	0	0	0	0	0	0.0
16	Chorchang		0	25	0	0	75	0	0	0	0.0
17	Dobi		0	40	0	0	0	0	0	60	0.7
18	Ganju Khel		0	0	50	50	0	0	0	0	0.0
19	Gari	Gari	0	0	0	0	100	0	0	0	0.0
20	Gari	Maeen Gari	0	50	0	0	50	0	0	0	0.0
21	Gari	Sar Gari	0	0	0	0	100	0	0	0	0.5
22	Gari	Ziarat Kalay	0	70	0	30	0	0	0	0	0.0
23	Gazak		0	0	0	0	0	0	0	100	0.2
24	Ghwagiza	Adam Khel	100	0	0	0	0	0	0	0	0.0
25	Ghwagiza	Alam Khel	0	100	0	0	0	0	0	0	0.0
26	Ghwagiza	Ali Sher	0	100	0	0	0	0	0	0	0.0
27	Ghwagiza	Bogian	100	0	0	0	0	0	0	0	0.0
28	Ghwagiza	Dargian	30	0	0	0	30	0	0	40	0.5
29	Ghwagiza	Injabat Khel	0	100	0	0	0	0	0	0	0.0

Appendix F: Drinking water sources in Hesarak district (Cont..)

		% of sources used								Distance of mostly used source (Km)	
S/NO.	Main village	Sub village	River	Canal/Joy	Weel		Spring	Pipe water	Pond		Karez
					Covered	Open					
30	Ghwagiza	Kabalo kas	0	100	0	0	0	0	0	0	0.0
31	Ghwagiza	Karim-Khel	0	100	0	0	0	0	0	0	0.0
32	Ghwagiza	Khengay	100	0	0	0	0	0	0	0	0.0
33	Ghwagiza	Mia Khel	100	0	0	0	0	0	0	0	0.0
34	Ghwagiza	Mana Khel	0	100	0	0	0	0	0	0	0.0
35	Ghwagiza	Saplai Jawara	0	90	0	0	10	0	0	0	0.2
36	Ghwagiza	Sra	20	70	0	0	10	0	0	0	0.0
37	Gad Khel		0	100	0	0	0	0	0	0	0.0
38	Gula Khel		0	70	25	0	5	0	0	0	0.2
39	Hadira Kas		0	0	0	0	100	0	0	0	0.0
40	Halim Khel		0	100	0	0	0	0	0	0	0.0
41	Hasan Kas		70	0	30	0	0	0	0	0	0.5
42	Jabai		0	100	0	0	0	0	0	0	0.0
43	Jokan	Arab Khel	0	20	30	0	0	0	0	50	0.0
44	Jokan	Baro Shekhan	0	70	30	0	0	0	0	0	0.0
45	Jokan	Sakan	0	100	0	0	0	0	0	0	0.0
46	Jokan	Durullah Khel	0	0	80	0	0	0	0	20	1.0
47	Jokan	Ghazi Qala	0	0	40	0	0	0	50	10	0.0
48	Jokan	Kamarkay Shekhan	0	40	60	0	0	0	0	0	0.0
49	Jokan	Khanami Kote	50	50	0	0	0	0	0	0	0.6
50	Jokan	Khanano Kalay	0	100	0	0	0	0	0	0	0.0
51	Jokan	Kharoti	0	0	0	0	100	0	0	0	0.0
52	Jokan	Landi Shekhan	0	0	100	0	0	0	0	0	0.0
53	Jokan	Nargosay	0	80	20	0	0	0	0	0	0.0
54	Jokan	Saraw	0	100	0	0	0	0	0	0	0.0
55	Jokan	Shinshobey	0	100	0	0	0	0	0	0	0.0
56	Jokan	Shinwari	70	30	0	0	0	0	0	0	0.0
57	Jokan	Teray	0	100	0	0	0	0	0	0	0.0
58	Kaday		0	0	0	0	100	0	0	0	0.0



Appendix F: Drinking water sources in Hesarak district (Cont..)

% of sources used											
S/NO.	Main village	Sub village	River	Canal/Joy	Weel		Spring	Pipe water	Pond	Karez	Distance of mostly used source (Km)
					Covered	Open					
59	Khanjar		0	0	0	0	0	0	0	100	0.3
60	Khomar Khel	Malakan	0	40	60	0	0	0	0	0	0.0
61	Kolala	Bara Kolala	0	0	0	0	0	0	0	100	0.2
62	Kolala	Koza Kolala	0	0	0	0	0	0	0	100	0.0
63	Lajgar	Lajgar	0	0	20	0	0	0	0	80	0.0
64	Lajgar	Sarwar Bagh	0	100	0	0	0	0	0	0	0.0
65	Langar khel		0	80	0	20	0	0	0	0	0.0
66	Mia Sahib Kalay		90	0	10	0	0	0	0	0	0.5
67	Miagan		0	100	0	0	0	0	0	0	0.0
68	Malakan		0	70	30	0	0	0	0	0	0.0
69	Mansur China		0	100	0	0	0	0	0	0	0.0
70	Mardar Dand		0	0	0	0	0	0	0	100	0.5
71	Miz Ghondi		60	0	40	0	0	0	0	0	0.5
72	Mohammadi		0	10	20	0	0	0	0	70	0.0
73	Many Shar		0	0	0	0	100	0	0	0	0.0
74	Naser Khel		0	0	40	40	20	0	0	0	0.0
75	Nawar	Chahartut	0	80	0	0	20	0	0	0	0.0
76	Nawar	Dagyan	0	100	0	0	0	0	0	0	0.0
77	Nawar	Dando	0	100	0	0	0	0	0	0	0.0
78	Nawar	Spina Qala	0	96	0	4	0	0	0	0	0.0
79	Parjina		0	100	0	0	0	0	0	0	0.0
80	Qalaqay		0	0	0	0	100	0	0	0	0.0
81	Qazyen		0	0	0	0	0	0	0	100	0.0
82	Ragha	Ragha	0	0	75	25	0	0	0	0	0.0
83	Ragha	Bostan Khel	0	80	0	20	0	0	0	0	0.0
84	Ragha	Naser Khel	0	100	0	0	0	0	0	0	0.0
85	Sarando Kalay		0	100	0	0	0	0	0	0	0.0
86	Seyaw Bala		0	0	0	0	100	0	0	0	0.7
87	Seyaw Payan		0	100	0	0	0	0	0	0	0.0

Appendix F: Drinking water sources in Hesarak district (Cont..)

% of sources used										
S/NO.	Main village	Sub village	Weel							Distance of mostly used source (Km)
			River	Canal/Joy	Covered	Open	Spring	Pipe water	Pond	
88	Shabak	Landy Shabak	0	0	25	0	50	0	25	0.0
89	Shabak	Shabak-e-Bala	0	50	0	50	0	0	0	0.5
90	Sinzi		100	0	0	0	0	0	0	0.0
91	Tomany	Koro Naw	0	0	0	0	100	0	0	0.0
92	Tomany	Oghuz	0	0	0	0	100	0	0	0.0
93	Tori Khel		50	0	25	0	25	0	0	0.3
94	Wodisar		80	0	20	0	0	0	0	0.5
95	Yaghi Band		0	90	0	10	0	0	0	0.0
96	Yakakhak		0	0	60	0	40	0	0	0.2
97	Zarif Khel		0	80	20	0	0	0	0	0.2

**Table 2.2: Repatriation**

No. of villages surveyed	In the village before war	Never been refugee or displaced	Number of families					
			Have returned			Still		From other village
			completely	partially	Total	refugee	displaced	
97	4143	362	2849	212	3062	3651	151	299

The lack of houses and employment opportunities were the two main problems cited for the successful repatriation of refugees and IDPs. Lack of food was estimated the third major problem of the area surveyed. A total of 22 villages replied that the collective problems of lack of land, roads, clinics, schools and wells were the main problems hindering the repatriation process. Damaged irrigation systems and abandoned arable land were considered less important for successful repatriation. No replies were received for security and fighting (see Table 2.3 and Appendix D).

**Table 2.3: Repatriation problems**

No. of villages surveyed	Lack of		Unemployment	Security	Fighting	Abandoned arable land	Damaged irrigation system	Others
	houses	Food						
97	94	67	94	0	0	6	12	22

List of others

Damaged of Karez

Lack of clinic

Lack of clinic and school

Lack of land

Lack of road and school

Lack of road, school and clinic

Lack of school

Lack of well

Land damaged by flood

## 2.3 Housing Status

Out of 3,500 houses reported in the surveyed area, only 1,420 houses (41%) were undamaged, while 1,090 houses (31%) were destroyed and 990 houses (28%) were damaged (see Table 2.4, Figure 2.2 and Appendix E).

**Table 2.4: Housing status**

No. of villages surveyed	Total No. of houses	Number and percentage of houses					
		Undamaged		Damaged		Destroyed	
		No.	%	No.	%	No.	%
97	3500	1420	41	990	28	1090	31

Appendix G: Condition of roads and transportation means in Hesarak district

S/No.	Main village	Sub village	Distance of village from district center (Km)	Existence of access road	Distance of village from access road (km)	Type of road			% of transportation means used				
						Good	Fairly good	Bad	Vehicle	Horses	Donkey	Mule	By foot
1	Abizangani	Boday Now	11.0	Y	0.0	-	-	√	100	0	0	0	0
2	Abizangani	Do Aab	10.0	Y	0.0	-	-	√	100	0	0	0	0
3	Abizangani	Gulab Khel	17.0	Y	0.0	-	-	√	60	0	40	0	0
4	Abizangani	Jamal Khel	25.0	Y	0.0	-	-	√	50	0	50	0	0
5	Abizangani	Kok Darah	12.0	Y	0.0	-	-	√	100	0	0	0	0
6	Abizangani	Lawar Khel	16.0	Y	0.0	-	-	√	90	0	10	0	0
7	Abizangani	Ozba Khel	25.0	Y	0.0	-	-	√	100	0	0	0	0
8	Abizangani	Qader Khel	26.0	Y	0.0	-	-	√	80	0	20	0	0
9	Abizangani	Sharif Khel	18.0	Y	0.0	-	-	√	80	0	20	0	0
10	Abizangani	Shinwari	15.0	Y	0.0	-	-	√	50	0	50	0	0
11	Abizangani	Wati	25.0	Y	0.0	-	-	√	80	0	20	0	0
12	Alam kas		12.0	Y	0.0	-	-	√	10	0	60	0	30
13	Ali Khel		1.5	Y	0.0	-	√	-	20	0	80	0	0
14	Bawlay		14.0	Y	0.0	-	-	√	100	0	0	0	0
15	Chartoot		4.0	Y	0.0	-	-	√	90	0	10	0	0
16	Chorchang		15.0	Y	0.0	-	-	√	10	0	90	0	0
17	Dobi		5.0	Y	0.0	-	-	√	100	0	0	0	0
18	Ganju Khel		4.0	Y	0.0	-	-	√	80	0	20	0	0
19	Gari	Gari	5.0	N	2.0	-	-	-	0	0	80	0	20
20	Gari	Maeen Gari	12.0	Y	0.0	-	-	√	20	0	60	0	20
21	Gari	Sar Gari	17.0	N	3.0	-	-	-	0	0	70	30	0
22	Gari	Ziarat Kalay	14.0	Y	0.0	-	-	√	10	0	75	0	15
23	Gazak		25.0	Y	0.0	-	-	√	80	0	20	0	0
24	Ghwagiza	Adam Khel	18.0	Y	0.0	-	-	√	5	0	95	0	0
25	Ghwagiza	Alam Khel	17.5	Y	0.0	-	-	√	5	0	95	0	0
26	Ghwagiza	Ali Sher	17.0	Y	0.0	-	-	√	10	0	80	0	10
27	Ghwagiza	Bogian	18.0	N	2.0	-	-	-	0	0	80	0	20

Appendix G: Condition of roads and transportation means in Hesarak district

S/No.	Main village	Sub village	Distance of village from district center (Km)	Existence of access road	Distance of village from access road (km)	Type of road			% of transportation means used				
						Good	Fairly good	Bad	Vehicle	Horses	Donkey	Mule	By foot
28	Ghwagiza	Dargian	17.5	N	1.5	-	-	-	0	0	80	0	20
29	Ghwagiza	Injabat Khel	18.0	Y	0.0	-	-	√	5	15	80	0	0
30	Ghwagiza	Kabalo kas	25.0	N	3.0	-	-	√	70	0	0	0	30
31	Ghwagiza	Karim-Khel	16.0	Y	0.0	-	-	√	20	0	60	0	20
32	Ghwagiza	Khengay	27.0	N	3.5	-	-	-	5	45	50	0	0
33	Ghwagiza	Mia Khel	12.0	Y	0.0	-	-	√	40	0	20	0	40
34	Ghwagiza	Mana Khel	30.0	N	10.0	-	-	-	0	25	60	0	15
35	Ghwagiza	Saplai Jawara	15.0	Y	0.0	-	-	√	20	20	60	0	0
36	Ghwagiza	Sra	31.0	N	14.0	-	-	-	0	0	80	0	20
37	Gad Khel		7.0	Y	0.0	-	-	√	100	0	0	0	0
38	Gula Khel		3.0	Y	0.0	-	-	√	30	0	40	0	30
39	Hadira Kas		2.0	Y	0.0	-	-	√	5	0	65	0	30
40	Halim Khel		5.0	N	2.0	-	-	-	0	0	40	0	60
41	Hasan Kas		5.0	Y	0.0	-	-	√	60	0	40	0	0
42	Jabai		1.5	N	1.0	-	-	-	0	0	80	0	20
43	Jokan	Arab Khel	12.0	Y	0.0	-	√	-	30	0	70	0	0
44	Jokan	Baro Shekhan	18.0	Y	0.0	-	-	√	20	0	80	0	0
45	Jokan	Sakan	18.0	N	1.0	-	-	-	0	0	100	0	0
46	Jokan	Durullah Khel	15.0	Y	0.0	-	√	-	60	0	40	0	0
47	Jokan	Ghazi Qala	16.0	Y	0.0	-	-	√	50	0	50	0	0
48	Jokan	Kamarkay Shekhan	19.0	N	1.0	-	-	-	0	0	80	0	20
49	Jokan	Khanami Kote	18.0	Y	0.0	-	-	√	30	0	70	0	0
50	Jokan	Khanano Kalay	18.0	Y	0.0	-	-	√	20	0	80	0	0
51	Jokan	Kharoti	20.0	N	6.0	-	-	-	0	0	40	0	60
52	Jokan	Landi Shekhan	5.0	Y	0.0	-	√	-	30	0	70	0	0
53	Jokan	Nargosay	11.0	Y	0.0	-	√	-	30	0	70	0	0
54	Jokan	Saraw	20.0	N	7.0	-	-	-	0	0	100	0	0
55	Jokan	Shinshobey	21.0	N	3.0	-	-	-	0	0	0	0	100

Appendix G: Condition of roads and transportation means in Hesarak district

S/No.	Main village	Sub village	Distance of village from district center (Km)	Existence of access road	Distance of village from access road (km)	Type of road			% of transportation means used				
						Good	Fairly good	Bad	Vehicle	Horses	Donkey	Mule	By foot
56	Jokan	Shinwari	15.0	N	2.0	-	-	-	0	0	60	0	40
57	Jokan	Teray	20.0	N	6.0	-	-	-	0	0	20	0	80
58	Kaday		3.0	Y	0.0	-	√	-	10	0	90	0	0
59	Khanjar		9.0	Y	0.0	-	-	√	100	0	0	0	0
60	Khomar Khel	Malakan	7.0	Y	0.0	-	-	√	80	0	20	0	0
61	Kolala	Bara Kolala	10.0	Y	0.0	-	-	√	80	0	20	0	0
62	Kolala	Koza Kolala	12.0	Y	0.0	-	-	√	80	0	20	0	0
63	Lajgar	Lajgar	7.0	Y	0.0	-	√	-	30	0	70	0	0
64	Lajgar	Sarwar Bagh	12.0	N	5.0	-	-	-	0	0	70	0	30
65	Langar khel		3.0	Y	0.0	-	√	-	40	0	40	0	20
66	Mia Sahib Kalay		2.0	Y	0.0	-	-	√	100	0	0	0	0
67	Miagan		7.5	Y	0.0	-	√	-	20	0	80	0	0
68	Malakan		4.0	Y	0.0	-	-	√	20	0	50	0	30
69	Mansur China		35.0	Y	0.0	-	-	√	10	0	80	0	10
70	Mardar Dand		10.0	Y	0.0	-	-	√	80	0	20	0	0
71	Miz Ghondi		2.5	Y	0.0	-	-	√	70	0	30	0	0
72	Mohammadi		10.0	Y	0.0	-	-	√	0	30	50	0	20
73	Many Shar		22.0	N	2.0	-	-	-	0	0	65	0	35
74	Naser Khel		12.0	Y	0.0	-	√	-	30	0	50	0	20
75	Nawar	Chahartut	2.0	Y	0.0	-	√	-	20	0	80	0	0
76	Nawar	Dagyan	2.0	Y	0.0	-	√	-	60	0	30	0	10
77	Nawar	Dando	2.0	Y	0.0	-	√	-	50	0	30	0	20
78	Nawar	Spina Qala	1.5	Y	0.0	-	√	-	10	0	90	0	0
79	Parjina		5.0	Y	0.0	-	√	-	20	0	80	0	0
80	Qalaqay		7.0	N	2.5	-	-	-	20	80	0	0	0
81	Qazyar		7.0	Y	0.0	-	-	√	10	0	50	0	40
82	Ragha	Ragha	3.0	Y	0.0	-	√	-	30	0	40	0	30

Appendix G: Condition of roads and transportation means in Hesarak district

S/No.	Main village	Sub village	Distance of village from district center (Km)	Existence of access road	Distance of village from access road (km)	Type of road			% of transportation means used				
						Good	Fairly good	Bad	Vehicle	Horses	Donkey	Mule	By foot
83	Ragha	Bostan Khel	1.0	Y	0.0	-	\	-	40	0	50	0	10
84	Ragha	Naser Khel	0.5	Y	0.0	-	\	-	20	0	50	0	30
85	Sarando Kalay		10.0	Y	0.0	-	-	√	20	0	80	0	0
86	Seyaw Bala		8.0	Y	0.0	-	-	√	100	0	0	0	0
87	Seyaw Payan		4.0	Y	0.0	-	\	-	15	0	85	0	0
88	Shabak	Landy Shabak	1.0	Y	0.0	-	\	-	80	0	20	0	0
89	Shabak	Shabak-e-Bala	0.0	Y	0.0	-	-	√	100	0	0	0	0
90	Sinzi		12.0	Y	0.0	-	-	√	80	0	20	0	0
91	Tomany	Koro Naw	9.0	N	7.0	-	-	-	0	0	40	0	60
92	Tomany	Oghuz	9.0	N	13.0	-	-	-	0	0	70	0	30
93	Tori Khel		2.5	Y	0.0	-	-	√	100	0	0	0	0
94	Wodisar		2.0	Y	0.0	-	\	-	50	0	50	0	0
95	Yaghi Band		20.0	Y	0.0	-	-	√	20	0	70	0	10
96	Yakakhak		14.0	Y	0.0	-	-	√	30	0	60	0	10
97	Zarif Khel		5.0	Y	0.0	-	\	-	100	0	0	0	0

Appendix H: Farm size and reasons for abandonment in Hesarak district

S/No	Main village	Sub village	Arable land(J)		Cultivated land(J)		Abandoned land(J)			Type of land use (%)	
			Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed	Reason	double cropped	single cropped
1	Abizangani	Boday Now	100	0	100	0	0	0		100	0
2	Abizangani	Do Aab	150	0	150	0	0	0		100	0
3	Abizangani	Gulab Khel	70	0	70	0	0	0		0	100
4	Abizangani	Jamal Khel	50	200	50	0	0	200		0	100
5	Abizangani	Kok Darah	90	0	90	0	0	0		100	0
6	Abizangani	Lawar Khel	60	0	60	0	0	0		100	0
7	Abizangani	Ozba Khel	30	0	30	0	0	0		0	100
8	Abizangani	Qader Khel	65	40	65	0	0	40	BC	0	100
9	Abizangani	Sharif Khel	50	0	50	0	0	0		0	100
10	Abizangani	Shinwari	30	13	30	0	0	13		0	100
11	Abizangani	Wati	100	0	100	0	0	0		0	100
12	Alam kas		100	200	90	50	10	150	B	64	36
13	Ali Khel		100	50	50	30	50	20	BD	62	38
14	Bawlay		180	0	150	0	30	0	BD	100	0
15	Chartoot		250	120	150	20	100	100	BD	88	12
16	Chorchang		100	70	60	30	40	40	B	67	33
17	Dobi		140	20	140	20	0	0		60	40
18	Ganju Khel		200	50	200	50	0	0		80	20
19	Gari	Gari	30	20	20	20	10	0	B	50	50
20	Gari	Maeen Gari	30	50	26	0	4	50	D	70	30
21	Gari	Sar Gari	30	100	30	50	0	50	D	35	65
22	Gari	Ziarat Kalay	85	0	85	0	0	0		33	67
23	Gazak		30	0	30	0	0	0		100	0
24	Ghwagiza	Adam Khel	15	0	10	0	5	0	D	0	100
25	Ghwagiza	Alam Khel	20	0	14	0	6	0	D	0	100
26	Ghwagiza	Ali Sher	100	0	100	0	0	0		0	100
27	Ghwagiza	Bogian	16	0	14	0	2	0	D	0	100
28	Ghwagiza	Dargian	60	0	55	0	5	0	D	0	100
29	Ghwagiza	Injabat Khel	16	0	14	0	2	0	D	0	100
30	Ghwagiza	Kabalo kas	30	0	30	0	0	0		0	100



Appendix H: Farm size and reasons for abandonment in Hesarak district (Cont..)

S/No	Main village	Sub village	Arable land(J)		Cultivated land(J)		Abandoned land(J)			Type of land use (%)	
			Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed	Reason	double cropped	single cropped
31	Ghwagiza	Karim-Khel	100	0	92	0	8	0	D	20	80
32	Ghwagiza	Khengay	40	0	40	0	0	0		0	100
33	Ghwagiza	Mia Khel	80	0	76	0	4	0	BC	20	80
34	Ghwagiza	Mana Khel	30	0	30	0	0	0		0	100
35	Ghwagiza	Saplai Zawara	60	0	60	0	0	0		60	40
36	Ghwagiza	Sra	300	40	300	0	0	40	CD	0	100
37	Gad Khel		120	0	120	0	0	0		70	30
38	Gulo Khel		90	0	90	0	0	0		100	0
39	Hadira Kas		120	0	100	0	20	0	C	70	30
40	Halim Khel		80	200	70	150	10	50	C	68	32
41	Hasan Kas		150	0	150	0	0	0		100	0
42	Jabai		40	0	40	0	0	0		100	0
43	Jokan	Arab Khel	200	250	110	100	90	150	BD	52	48
44	Jokan	Baro Shekhan	110	0	60	0	50	0	B	100	0
45	Jokan	Sakan	30	0	20	0	10	0	B	100	0
46	Jokan	Durullah Khel	130	0	100	0	30	0	B	100	0
47	Jokan	Ghazi Qala	50	300	50	250	0	50	C	16	84
48	Jokan	Kamarkay Shekhan	300	0	200	0	100	0	B	100	0
49	Jokan	Khanami Kote	130	0	30	0	100	0	B	100	0
50	Jokan	Khanano Kalay	70	0	50	0	20	0	B	25	75
51	Jokan	Kharoti	15	15	5	10	10	5	BD	0	100
52	Jokan	Landi Shekhan	100	50	60	30	40	20	B	67	33
53	Jokan	Nargosay	14	300	100	100	40	200		50	50
54	Jokan	Saraw	6	0	4	0	2	0	B	0	100
55	Jokan	Shinshobey	11	0	5	0	6	0	B	0	100
56	Jokan	Shinwari	15	10	15	0	0	10	D	100	0
57	Jokan	Teray	15	0	10	0	5	0	B	0	100
58	Kaday		60	100	60	0	0	100	D	100	0
59	Khanjar		600	200	600	200	0	0		50	50
60	Khomar Khel	Malakan	30	0	200	0	100	0	BD	20	80

Appendix H: Farm size and reasons for abandonment in Hesarak district (Cont..)

S/No	Main village	Sub village	Arable land(J)		Cultivated land(J)		Abandoned land(J)			Type of land use (%)	
			Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed	Reason	double cropped	single cropped
61	Kolala	Bara Kolala	20	20	20	20	0	0		50	50
62	Kolala	Koza Kolala	80	40	80	40	0	0		66	34
63	Lajgar	Lajgar	500	700	500	500	0	200	D	50	50
64	Lajgar	Sarwar Bagh	80	0	40	0	40	0	B	0	100
65	Langar khel		500	0	460	0	40	0	D	100	0
66	Mia Sahib Kalay		130	0	130	0	0	0		100	0
67	Miagan		130	50	100	0	30	50	D	100	0
68	Malakan		450	0	435	0	15	0	D	100	0
69	Mansur China		130	200	130	100	0	100	D	45	55
70	Mardar Dand		20	20	20	20	0	0		50	50
71	Miz Ghondi		300	0	300	0	0	0		100	0
72	Mohammadi		200	100	170	50	30	50	D	23	77
73	Many Shar		170	0	170	0	0	0		20	80
74	Naser Khel		400	180	380	80	20	100	D	80	20
75	Nawar	Chahartut	25	0	20	0	5	0	D	100	0
76	Nawar	Dagyan	40	0	25	0	15	0	BD	100	0
77	Nawar	Dando	50	0	40	0	10	0	BD	100	0
78	Nawar	Spina Qala	3	10	30	10	5	0	D	75	25
79	Parjina		130	0	120	0	10	0	D	100	0
80	Qalaqay		100	100	50	40	50	60	BC	55	45
81	Qazyan		75	20	75	0	0	20	D	80	20
82	Ragha	Ragha	300	0	300	0	0	0		100	0
83	Ragha	Bostan Khel	80	0	80	0	0	0		20	80
84	Ragha	Naser Khel	200	0	170	0	30	0	BC	70	30
85	Sarando Kalay		400	50	250	20	150	30	BD	92	8
86	Seyaw Bala		250	400	150	0	100	400	BD	80	20
87	Seyaw Payan		450	0	300	0	150	0	B	100	0
88	Shabak	Landy Shabak	180	0	130	0	50	0	BD	70	30
89	Shabak	Shabak-e-Bala	150	50	150	0	0	50		100	0

Appendix H: Farm size and reasons for abandonment in Hesarak district (Cont..)

Appendix H: Farm Size and Reasons for Abandonment in Residual districts (cont'd)										Type of land use (%)	
S/No	Main village	Sub village	Arable land(J)		Cultivated land(J)		Abandoned land(J)			double cropped	single cropped
			Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed	Reason		
90	Sinzi	Koro Naw Oghuz	130	0	130	0	0	0		90	10
91	Tomany		20	30	10	20	10	10	B	0	100
92	Tomany		15	30	7	15	8	15	B	32	68
93	Tori Khel		200	0	150	0	50	0	D	100	0
94	Wodisar		200	0	200	0	0	0		100	0
95	Yaghi Band		130	0	100	0	30	0	B	40	60
96	Yakakhak		40	50	20	25	20	25	BD	40	60
97	Zarif Khel		400	100	400	100	0	0		80	20

Reason for abandonment of land: A = Mines

B = Shortage of irrigation water

C = Lack of farm power

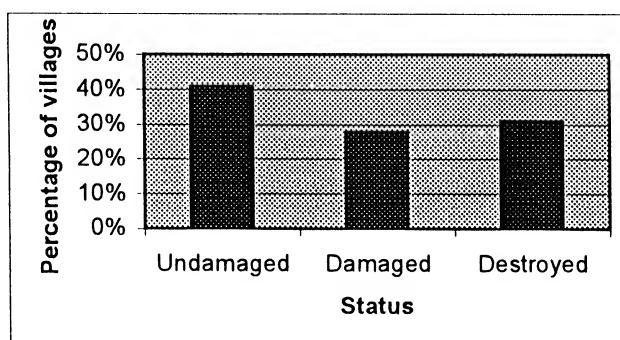
D = Other ( Land damaged by flood, Karez damaged by land, Owner of land is refugee, Lack of precipitation, High water table)

Appendix I: Orchards and fruit nurseries in Hesarak district

S/No	Main village	Sub village	Nurseries		
			Orchard (J)	No.	Acreage (J)
1	Abizangani	Boday Now	0.0	0	0.00
2	Abizangani	Do Aab	0.0	0	0.00
3	Abizangani	Gulab Khel	0.0	0	0.00
4	Abizangani	Jamal Khel	0.0	0	0.00
5	Abizangani	Kok Darah	0.0	0	0.00
6	Abizangani	Lawar Khel	0.0	8	0.50
7	Abizangani	Ozba Khel	0.0	0	0.00
8	Abizangani	Qader Khel	0.0	0	0.00
9	Abizangani	Sharif Khel	0.0	0	0.00
10	Abizangani	Shinwari	0.0	0	0.00
11	Abizangani	Wati	0.0	0	0.00
12	Alam kas		6.0	0	0.00
13	Ali Khel		0.0	0	0.00
14	Bawlay		0.0	0	0.00
15	Chartoot		5.0	0	0.00
16	Chorchang		0.0	0	0.00
17	Dobi		0.0	0	0.00
18	Ganju Khel		1.0	0	0.00
19	Gari	Gari	2.0	0	0.00
20	Gari	Maeen Gari	4.0	0	0.00
21	Gari	Sar Gari	3.0	0	0.00
22	Gari	Ziarat Kalay	4.0	0	0.00
23	Gazak		0.0	0	0.00
24	Ghwagiza	Adam Khel	0.0	0	0.00
25	Ghwagiza	Alam Khel	0.0	0	0.00
26	Ghwagiza	Ali Sher	0.0	0	0.00
27	Ghwagiza	Bogian	0.0	0	0.00
28	Ghwagiza	Dargian	0.0	0	0.00
29	Ghwagiza	Injabat Khel	0.0	0	0.00
30	Ghwagiza	Kabalo kas	0.0	0	0.00
31	Ghwagiza	Karim-Khel	0.0	0	0.00
32	Ghwagiza	Khengay	0.0	0	0.00
33	Ghwagiza	Mia Khel	0.0	0	0.00
34	Ghwagiza	Mana Khel	0.0	0	0.00
35	Ghwagiza	Saplai Zawara	4.0	0	0.00
36	Ghwagiza	Sro	0.0	0	0.00
37	Gad Khel		0.0	0	0.00
38	Gulo Khel		0.0	1	0.50
39	Hadira Kas		0.0	0	0.00
40	Halim Khel		0.0	0	0.00
41	Hasan Kas		0.0	0	0.00
42	Jabai		0.0	0	0.00
43	Jokan	Arab Khel	0.0	0	0.00
44	Jokan	Baro Shekhan	0.0	0	0.00
45	Jokan	Sakan	0.0	0	0.00
46	Jokan	Durullah Khel	2.0	0	0.00
47	Jokan	Ghazi Qala	5.0	0	0.00
48	Jokan	Kamarkay Shekhan	20.0	0	0.00
49	Jokan	Khanami Kote	10.0	0	0.00
50	Jokan	Khanano Kalay	4.0	0	0.00
51	Jokan	Kharoti	0.0	0	0.00
52	Jokan	Landi Shekhan	0.0	0	0.00
53	Jokan	Nargosay	0.0	0	0.00
54	Jokan	Saraw	0.0	0	0.00
55	Jokan	Shinshobey	0.0	0	0.00
56	Jokan	Shinwari	0.0	0	0.00

Appendix I: Orchards and fruit nurseries in Hesarak district (Cont..)

S/No	Main village	Sub village	Nurseries		
			Orchard(J)	No.	Acreage (J)
57	Jokan	Teray	0.0	0	0.00
58	Kaday		0.0	0	0.00
59	Khanjar		6.0	0	0.00
60	Khomar Khel	Malakan	0.0	0	0.00
61	Kolala	Bara Kolala	0.0	0	0.00
62	Kolala	Koza Kolala	0.0	0	0.00
63	Lajgar	Lajgar	0.0	0	0.00
64	Lajgar	Sarwar Bagh	0.0	0	0.00
65	Langar khel		30.0	0	0.00
66	Mia Sahib Kalay		0.0	0	0.00
67	Miagan		0.0	0	0.00
68	Malakan		10.0	0	0.00
69	Mansur China		3.0	0	0.00
70	Mardar Dand		0.0	0	0.00
71	Miz Ghondi		0.0	0	0.00
72	Mohammadi		10.0	0	0.00
73	Many Shar		0.0	0	0.00
74	Naser Khel		7.0	1	0.05
75	Nawar	Chahartut	5.0	0	0.00
76	Nawar	Dagyan	0.0	0	0.00
77	Nawar	Dando	0.0	1	1.00
78	Nawar	Spina Qala	0.0	0	0.00
79	Parjina		0.0	0	0.00
80	Qalaqay		0.0	0	0.00
81	Qazyan		3.0	0	0.00
82	Ragha	Ragha	0.0	0	0.00
83	Ragha	Bostan Khel	0.0	0	0.00
84	Ragha	Naser Khel	0.0	0	0.00
85	Sarando Kalay		1.0	0	0.00
86	Seyaw Bala		0.0	0	0.00
87	Seyaw Payan		0.0	0	0.00
88	Shabak	Landy Shabak	0.0	0	0.00
89	Shabak	Shabak-e-Bala	0.0	0	0.00
90	Sinzi		2.0	0	0.00
91	Tomany	Koro Naw	0.0	0	0.00
92	Tomany	Oghuz	0.0	0	0.00
93	Tori Khel		0.0	0	0.00
94	Wodisar		0.0	0	0.00
95	Yaghi Band		4.0	0	0.00
96	Yakakhak		0.0	0	0.00
97	Zarif Khel		0.0	0	0.00

**Figure 2.2: Housing status**

## 2.4 Drinking Water Sources

Canal/Joy was reported to be the main sources of drinking water, providing 41% of potable water. Rivers followed by springs constituted the second and third sources of drinking water, respectively. Karezes, covered wells, open wells and ponds were reported as the other main sources of drinking water providing about 25% of drinking water (see Table 2.5 and Appendix F).

**Table 2.5: Use of drinking water sources by Percentage**

No. of villages surveyed	River	Canal /Joy	Covered well	Open well	Spring	Pipe water	Pond	Karez
97	18	41	11	2	17	0	1	11

## 2.5 Access Road and Transportation

Out of 97 villages surveyed, only 75 villages have access roads. The status of those roads is indicated as fairly good by 22 villages and as bad by 53 villages. Unfortunately, no replies are received for good condition of road (see Table 2.6 and Appendix G).

**Table 2.6: Condition of roads**

No. of villages surveyed	No. of villages with access road	No. of village replied for Condition of road as		
		Good	Fairly good	Bad
97	75	0	22	53

Donkeys were reported to be the main means of transportation for the villagers. 38% of villages used vehicles as their means of transportation. Seven percent of villages reported no means of transportation. Therefore, they have to go by foot. This case is specially applicable in mountainous areas where there is no way for any means of transportation. Six percent used mules and horses (see Table 2.7 and Appendix G).

## Appendix J: Main crops grown and yield in Hesarak district

[illegible]

Appendix J: Main crops grown and yield in Hesarak district (Cont..)

	Main	Sub	Irr.	R_fed	Rice	Maize	Onion	Potatoes	Tomatoes	Apple	Apricot	Grape	Pomeg-	Walnut	Mul
S/No	village	village	wheat	wheat	(S/J)	(S/J)	(S/J)	(S/J)	(S/J)	(S/T)	(S/T)	(S/T)	ranates	(S/T)	berry
			(S/J)	(S/J)											(S/T)
35	Ghwagiza	Saplai Jawara	80	0	0	50	0	0	0	0	7	0	0	60	0
36	Ghwagiza	Sra	0	0	0	50	0	0	0	0	0	0	0	0	0
37	Gad Khel		50	0	60	50	0	0	0	0	5	0	0	9	0
38	Gulo Khel		80	30	0	80	0	0	0	0	0	0	0	0	0
39	Hadira Kace		76	0	45	0	0	0	0	0	0	0	0	0	0
40	Halim Khel		70	20	80	40	0	0	0	0	0	0	0	0	0
41	Hasan Kas		70	0	0	50	0	0	0	5	8	7	6	10	0
42	Jabai		60	0	50	40	0	0	0	0	0	0	0	0	0
43	Jokan	Arab Khel	80	15	0	60	0	0	0	0	0	0	0	0	0
44	Jokan	Baro Shekhan	70	0	0	60	0	0	0	0	0	0	0	0	0
45	Jokan	Sakan	70	0	0	50	0	0	0	0	0	0	0	0	0
46	Jokan	Durullah Khel	80	0	0	70	290	300	0	0	10	0	0	10	0
47	Jokan	Ghazi Qala	80	40	0	70	400	200	0	8	16	10	13	15	0
48	Jokan	Kamarkay Shekhan	80	0	0	80	0	240	250	0	10	0	0	18	0
49	Jokan	Khanami Kote	70	0	0	60	140	120	0	0	18	0	0	15	0
50	Jokan	Khanano Kalay	80	0	0	80	0	0	0	0	8	0	0	10	0
51	Jokan	Kharoti	50	30	0	0	0	140	0	0	0	0	0	6	0
52	Jokan	Landi Shekhan	70	30	0	60	150	0	0	0	15	0	0	0	0
53	Jokan	Nargosay	80	30	0	70	0	0	0	0	0	0	0	0	0
54	Jokan	Saraw	70	0	0	80	0	0	0	0	0	0	0	0	0
55	Jokan	Shinshobey	50	0	0	30	0	0	0	0	0	0	0	0	0
56	Jokan	Shinwari	60	30	0	50	0	0	0	0	6	0	0	5	0
57	Jokan	Teray	70	0	0	80	0	0	0	0	10	0	0	0	0
58	Kaday		60	40	70	80	0	0	0	0	20	0	0	10	0
59	Khanjar		70	0	0	60	0	0	0	0	6	0	0	8	0
60	Khomar Khel	Malakan	90	0	80	60	0	0	0	0	0	0	0	0	0
61	Kolala	Bara Kolala	20	0	0	40	0	0	0	0	0	0	0	6	0
62	Kolala	Koza Kolala	30	0	0	30	0	0	0	0	0	0	0	0	0
63	Lajgar	Lajgar	100	60	0	100	350	200	0	0	12	0	5	20	0
64	Lajgar	Sarwar Bagh	80	0	0	70	0	0	0	0	0	0	0	0	0
65	Langar khel		100	0	80	120	160	160	0	0	4	0	0	0	0
66	Mia Sahib Kalay		60	0	0	40	0	0	0	4	4	0	5	0	0
67	Miagan		70	30	65	60	0	0	0	0	0	0	0	20	0
68	Malakan		80	0	100	80	150	200	200	0	0	0	0	0	0



Appendix J: Main crops grown and yield in Hesarak district (Cont..)

Main S/No	Sub village	Irr. wheat (S/J)	R_fed wheat (S/J)	Rice (S/J)	Maize (S/J)	Onion (S/J)	Potatoes (S/J)	Tomatoes (S/J)	Apple (S/T)	Apricot (S/T)	Grape (S/T)	Pomeg- ranates (S/T)	Walnut (S/T)	Mul berry (S/T)
69	Mansur China	60	25	0	60	0	0	0	0	8	0	2	0	0
70	Mardar Dand	50	0	0	30	0	0	0	0	0	0	0	6	0
71	Miz Ghondi	100	0	0	80	300	280	0	5	12	10	13	0	0
72	Mohammadi	90	15	0	20	0	0	0	0	0	0	3	0	6
73	Manay Shar	70	0	0	50	0	0	0	0	0	0	0	0	0
74	Naser Khel	120	20	0	80	0	0	0	0	2	0	3	0	0
75	Nawar	80	0	60	60	0	0	0	0	0	10	0	0	0
76	Nawar	80	0	80	70	0	0	0	0	0	0	0	0	0
77	Nawar	70	0	80	55	0	0	0	0	0	0	0	0	0
78	Nawar	70	30	60	80	0	0	0	0	0	0	0	0	0
79	Parjina	80	0	70	75	0	0	0	0	3	0	0	4	0
80	Qalaqay	80	40	0	85	0	0	0	0	0	0	0	0	0
81	Qazyan	80	0	0	60	0	0	0	0	4	0	0	0	0
82	Ragha	120	0	70	80	0	0	0	0	0	0	0	0	0
83	Ragha	100	0	0	80	0	0	80	0	0	0	0	0	0
84	Ragha	80	0	0	50	0	0	0	0	0	0	0	0	5
85	Sarando Kalay	80	25	0	50	0	0	0	0	8	0	4	8	0
86	Seyaw Bala	50	0	0	40	0	0	0	0	5	0	0	0	0
87	Seyaw Payan	80	0	75	70	0	0	0	0	0	0	0	0	0
88	Shabak	80	0	90	70	0	0	0	0	0	0	0	0	0
89	Shabak	100	0	90	90	0	0	0	4	7	8	4	10	0
90	Sinzi	40	0	0	35	0	0	0	0	0	0	0	0	0
91	Tomany	60	40	0	80	300	400	0	0	0	0	0	15	0
92	Tomany	80	15	0	60	250	300	0	0	0	0	0	0	0
93	Tori Khel	80	0	0	60	0	0	0	0	0	0	0	0	0
94	Wodisar	50	0	0	35	0	0	0	4	6	10	0	0	0
95	Yaghi Band	60	0	0	40	0	0	0	0	4	0	3	0	0
96	Yakakhak	50	20	0	30	0	0	0	0	0	0	0	0	0
97	Zarif Khel	70	0	0	60	0	0	0	0	5	0	0	7	0

S/J = Seer per Jerib

S/T = Seer per Tree

Appendix K: Products taken to market in Hesarak district

S/No.	Main village	Sub village	Cereals	Fruit	Vegetables	Crafts	Animals	Others
1	Abizangani	Boday Now	-	Walnut	-	-	Cow Goat Sheep	Opium
2	Abizangani	Do Aab	-	Walnut	-	-	Cow Goat Sheep	Opium
3	Abizangani	Gulab Khel	-	Walnut	-	-	Cow Sheep Goat Donkey	Opium
4	Abizangani	Jamal Khel	-	Walnut	-	-	Cow Sheep Goat Donkey	Opium
5	Abizangani	Kok Darah	-	Walnut	-	-	Goat Sheep Donkey Cattle	Opium
6	Abizangani	Lawar Khel	-	Walnut	-	-	Cow Goat Sheep Donkey	Opium
7	Abizangani	Ozba Khel	-	Walnut	-	-	Sheep Goat Cow Donkey	-
8	Abizangani	Qader Khel	-	Walnut	-	-	Goat Sheep Cattle	-

Appendix K: Products taken to market in Hesarak district (Cont..)

S/No.	Main village	Sub village	Cereals	Fruit	Vegetables	Crafts	Animals	Others
9	Abizangani	Sharif Khel	-	Walnut	-	-	Cow Goat Sheep Donkey	Opium
10	Abizangani	Shinwari	-	Walnut	-	-	Cow Sheep Goat Donkey	-
11	Abizangani	Wati	-	Walnut	-	-	Cattle Goat Sheep Donkey	-
12	Alam kas		-	Walnut	-	-	-	Opium
13	Ali Khel		-	-	-	-	Goat Sheep Cattle	Opium
14	Bawlay		-	Walnut	-	-	Oxen Cattle Goat Sheep	Opium
15	Chartoot		-	Walnut Apple Apricot	-	-	Goat Sheep Cattle	Opium Wool
16	Chorchang		-	-	-	-	Goat Sheep	Opium Wool
17	Dobi		-	-	-	-	Cattle Sheep Goat Donkey	Opium

Appendix K: Products taken to market in Hesarak district (Cont..)

S/No.	Main village	Sub village	Cereals	Fruit	Vegetables	Crafts	Animals	Others
18	Ganju Khel		-	Walnut	-	-	Cow Sheep Goat Donkey	Opium
19	Gari	Gari	-	Apricot	-	-	Goat Sheep	Opium
20	Gari	Mae Gari	-	-	-	-	Cow Sheep	Opium Wool
21	Gari	Sar Gari	-	Walnut	-	-	-	Opium
22	Gari	Ziarat Kalay	-	Walnut	-	-	-	Opium
23	Gazak		-	Walnut	-	-	Cow Cattle Goat Sheep	Opium
24	Ghwagiza	Adam Khel	-	Walnut	-	-	Sheep Goat Cow	Opium
25	Ghwagiza	Alam Khel	-	Walnut	-	-	Cow Donkey Sheep Goat	Opium
26	Ghwagiza	Ali Sher	-	Walnut	-	-	Cow Donkey Goat Sheep	Opium Wool

Appendix K: Products taken to market in Hesarak district (Cont..)

S/No.	Main village	Sub village	Cereals	Fruit	Vegetables	Crafts	Animals	Others
27	Ghwagiza	Bogian	-	Walnut	-	-	Cow Donkey Sheep Goat	Opium
28	Ghwagiza	Dargian	-	Walnut	-	-	Cow Goat Sheep Donkey	Opium
29	Ghwagiza	Injabat Khel	-	Walnut	-	-	Cow	Opium
30	Ghwagiza	Kabalo kas	-	Walnut	-	-	Donkey Sheep Sheep Goat	Opium Wool
31	Ghwagiza	Karim-Khel	-	Walnut	-	-	Sheep Cow Goat	Opium Wool
32	Ghwagiza	Khengay	-	-	-	-	-	Animal skin Cotton Opium
33	Ghwagiza	Mia Khel	-	Walnut	-	-	Cow Donkey Sheep Goat	-
34	Ghwagiza	Mana Khel	-	-	-	-	Goat Sheep	Animal skin Cotton Opium
35	Ghwagiza	Saplai Jawara	-	Walnut	-	-	Goat	Animal skin Opium Wool

Appendix K: Products taken to market in Hesarak district (Cont..)

S/No.	Main village	Sub village	Cereals	Fruit	Vegetables	Crafts	Animals	Others
36	Ghwagiza	Sra	-	Almond	-	-	Sheep Cow Goat Oxen	Hashish Wool
37	Gad Khel		-	Walnut	-	-	Cattle Goat Sheep Donkey	Opium
38	Gulo Khel		-	-	-	-	Goat Cattle	Opium
39	Hadira Kas		-	-	-	-	Cattle	Opium
40	Halim Khel		-	-	-	-	Donkey Cow Sheep Goat	Opium Wool
41	Hasan Kas		-	Walnut	-	-	Cow Sheep Goat Donkey	Opium
42	Jabai		-	-	-	-	Sheep Goat Cow Donkey	Wool Opium
43	Jokan	Arab Khel	-	-	-	-	Sheep Goat Cow Cattle	Opium Wool

Appendix K: Products taken to market in Hesarak district (Cont..)

S/No.	Main village	Sub village	Cereals	Fruit	Vegetables	Crafts	Animals	Others
44	Jokan	Baro Shekhan	-	-	-	-	Sheep Goat Cow	Opium
45	Jokan	Sakan	-	-	-	-		Opium
46	Jokan	Durullah Khel	-	-	-	-	Sheep Cow Cattle	Opium
47	Jokan	Ghazi Qala	-	Walnut	Potato Onion	-	Goat Sheep Cow	Opium
48	Jokan	Kamarkay Shekhan	Maize	Walnut	Potato Onion	Cap weaving	Goat Cow Cattle	-
49	Jokan	Khanami Kote	-	Walnut	-	-	Goat Sheep Cow	Opium
50	Jokan	Khanano Kalay	-	Walnut Apricot	-		-	Opium
51	Jokan	Kharoti	-	-	Potato	-	Goat Sheep Cow	-
52	Jokan	Landi Shekhan	-	Apricot	Onion	-	Goat Sheep	Opium Wool
53	Jokan	Nargosay	-	-	-	-	Sheep Goat Cattle Cow	Opium

Appendix K: Products taken to market in Hesarak district (Cont..)

S/No.	Main village	Sub village	Cereals	Fruit	Vegetables	Crafts	Animals	Others
54	Jokan	Saraw	-	-	-	-	Goat Sheep Cattle	Opium
55	Jokan	Shinshobey	-	-	-	-	Goat Sheep Cattle	Opium Wool
56	Jokan	Shinwari	-	Walnut	-	-	Sheep Cow	Opium
57	Jokan	Teray	-	Walnut	-	-	Goat Sheep Cow	Opium
58	Kaday		-	Walnut	-	-	Goat Sheep Cow	Opium
59	Khanjar		-	Walnut	-	-	Cow Goat Donkey Sheep	Opium
60	Khomar Khel	Malakan	-	-	-	-	Goat Sheep Cow	Opium
61	Kolala	Bara Kolala	-	-	-	-	Cattle Goat	Opium



**Table 2.7: Transportation means used by percentage**

No. of villages surveyed	Vehicle	Horse	Donkey	Camel	Mule	By foot
97	38	2	48	0	4	7

### 3. AGRICULTURE

#### 3.1 Farm Size

The conducive natural features of the surveyed areas make the environment suitable for agricultural activities. The survey revealed that farming is a major activity generating a good return which to some extent can meet the subsistence requirements of the residents. This is especially important now that off farm employment opportunities have diminished by the absence of a stable government.

**Table 3.1: Farm size**

No. of villages surveyed	Arable land (Jerib)		Cultivated land(Jerib)		% Use of cultivated		Abandoned(Jerib)	
	irrigated	rianfed	irrigated	rianfed	double cropped	single cropped	irrigated	rianfed
97	12529	4548	10752	2150	56	44	1777	2398

The total amount of arable land was estimated at 17,077 jeribs (3,415 hectares) in the surveyed area. 10,752 jeribs irrigated and 2,150 jeribs rianfed land was cultivated, while 4,175 jeribs was found to be abandoned by the survey. Double cropping is common in the surveyed area. Almost 56% of land in Hesarak district is double cropped and 44% is single cropped (see Table 3.1 and Appendix H).

**Table 3.2: Reasons for land abandonment**

No. of villages surveyed	Mines	Shortage of Irrigation water	Lack of farm power	Others
97	0	34	8	35

#### List of others

High water table  
Karez damaged by flood  
Lack of precipitation  
Land damaged by flood  
Owner of land is refugee

Shortage of irrigation water was the main reason for land abandonment. A total of 35 villages cited a group of problems such as high water table, karez damaged by floods, lack of precipitation, land damaged by floods and the owner of the land being a refugee as the main reasons for land abandonment. Lack of farm power was reported only by eight villages (see Table 3.2 and Appendix H).

Appendix K: Products taken to market in Hesarak district (Cont..)

S/No.	Main village	Sub village	Cereals	Fruit	Vegetables	Crafts	Animals	Others
62	Kolala	Koza Kolala	-	-	-	-	Cow Goat Sheep Donkey	Opium
63	Lajgar	Lajgar	-	Walnut Apricot Watermelon	Cauliflower	Rug	Goat Sheep Cow	Opium
64	Lajgar	Sarwar Bagh	-	-	-	-	Goat Sheep Cattle	Opium
65	Langar khel		Wheat Maize	Grape Walnut	Potato Onion	-	Sheep Cow Goat	Opium Wool
66	Mia Sahib Kalay		-	-	-	-	Sheep Goat Cow Donkey	Opium
67	Miagan		-	-	-	-	Cow Sheep	Opium
68	Malakan		Wheat Maize	-	Onion Potato Tomato	-	Sheep Cow Goat Oxen	Opium Wool
69	Mansur China		-	Walnut	-	-	Sheep Cow Goat	Opium Wool

Appendix K: Products taken to market in Hesarak district (Cont..)

S/No.	Main village	Sub village	Cereals	Fruit	Vegetables	Crafts	Animals	Others
70	Mardar Dand		-	Walnut	-	-	Oxen Sheep Goat Donkey	-
71	Miz Ghondi		-	-	-	-	Cow Goat Sheep Donkey	Opium
72	Mohammadi		-	Walnut	-	-	Goat Sheep	Opium
73	Many Shar		-	-	-	-	Goat Cattle Sheep	Opium
74	Naser Khel		Maize	Walnut	-	-	Cow Sheep	Opium
75	Nawar	Chahartut	-	Grape	-	-	Sheep Oxen Goat	Opium
76	Nawar	Dagyan	-	-	-	-	Cattle Sheep Goat Cow	Opium
77	Nawar	Dando	-	-	-	-	Goat Sheep Cow	Opium
78	Nawar	Spina Qala	-	-	-	-	Sheep Goat Oxen	Opium

Appendix K: Products taken to market in Hesarak district (Cont..)

S/No.	Main village	Sub village	Cereals	Fruit	Vegetables	Crafts	Animals	Others
79	Parjina		-	-	-	-	Cow Goat Sheep	Opium
80	Qalaqay		-	-	-	-	Goat Sheep Oxen	Opium
81	Qazyan		-	-	-	-	Sheep Cow	Opium Wool
82	Ragha	Ragha	-	-	-	-	Sheep Cow	Opium Wool
83	Ragha	Bostan Khel	-	Walnut	Tomato	-	-	Opium
84	Ragha	Naser Khel	-	-	-	-	Cattle Cow Sheep Goat	Wool Opium
85	Sarando Kalay		-	Apple Pomegranate Walnut	-	-	Goat Sheep Cattle Cow	Opium Wool
86	Seyaw Bala		-	Walnut	-	-	Cow Goat Sheep Donkey	Opium
87	Seyaw Payan		-	-	-	-	Cow Goat Sheep	Opium

Appendix K: Products taken to market in Hesarak district (Cont..)

S/No.	Main village	Sub village	Cereals	Fruit	Vegetables	Crafts	Animals	Others
88	Shabak	Landy Shabak	-	-	-	-	Goat Sheep Cattle	Opium Wool
89	Shabak	Shabak-e-Bala	-	-	-	-	Cow Sheep Goat Donkey	Opium
90	Sinzi		-	-	-	-	Cow Cattle Goat Sheep	Opium
91	Tomany	Koro Naw	-	Walnut	Potato Onion	-	Goat Sheep Cow	-
92	Tomany	Oghuz	-	Walnut	Onion Potato	-	Goat Sheep	Wool
93	Tori Khel		-	-	-	-	Sheep Goat Oxen Donkey	Opium
94	Wodisar		-	-	-	-	Cow Sheep Goat Donkey	Opium
95	Yaghi Band		-	-	-	-	Goat Cattle	Opium

Appendix K: Products taken to market in Hesarak district (Cont..)

S/No.	Main village	Sub village	Cereals	Fruit	Vegetables	Crafts	Animals	Others
96	Yakakhak		-	-	-	-	Sheep	Opium Wool
97	Zarif Khel		-	Walnut	-	-	Cattle Goat Sheep Donkey	Opium

Appendix L: Farm power, use of improved seed, fertilizer and agrochemical in Hesarak district

		Improved seed varieties																			
						Wheat				Maize				Use of							
S/No	Main village	Sub village	No. of farm power			Varieties				Sowing rate (S/J)	Varieties				Sowing rate (S/J)	Fertilizer			Agrochemical		
			Oxen	Tractor	Thresher	A	B	C	D		E	F	G	H		I	J	K	L	M	N
1	Abizangani	Boday Now	30	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
2	Abizangani	Do Aab	30	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
3	Abizangani	Gulab Khel	8	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
4	Abizangani	Jamal Khel	6	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
5	Abizangani	Kok Darah	20	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
6	Abizangani	Lawar Khel	12	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
7	Abizangani	Ozba Khel	6	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
8	Abizangani	Qader Khel	10	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
9	Abizangani	Sharif Khel	10	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
10	Abizangani	Shinwari	0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	√	√	-	-	-
11	Abizangani	Wati	16	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
12	Alam kas		16	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	√	-	-	-
13	Ali Khel		6	1	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
14	Bawlay		30	0	0	-	-	-	√	4.0	-	-	-	-	0.0	√	√	√	-	-	-
15	Chartoot		40	1	0	√	-	-	-	4.0	-	-	-	-	0.0	√	√	-	-	-	-
16	Chorchang		10	0	0	√	-	-	-	4.0	-	-	-	-	0.0	√	√	-	-	-	-
17	Dobi		16	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	√	-	-	-
18	Ganju Khel		20	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
19	Gari	Gari	8	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
20	Gari	Maeen Gari	5	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	√	-	-	-
21	Gari	Sar Gari	10	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	√	√	-	-	-
22	Gari	Ziarat Kalay	12	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	√	-	-	-
23	Gazak		8	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	√	-	-	-
24	Ghwagiza	Adam Khel	2	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	√	-	-	-
25	Ghwagiza	Alam Khel	2	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	√	-	-	-
26	Ghwagiza	Ali Sher	2	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	-	√	-	-	-

Appendix L: Farm power, use of improved seed, fertilizer and agrochemical in Hesarak district (Cont..)

		Improved seed varieties													Use of						
						Wheat				Maize											
S/No	Main village	Sub village	No. of farm power			Varieties				Sowing rate (S/J)	Varieties				Sowing rate (S/J)	Fertilizer			Agrochemical		
			Oxen	Tractor	Thresher	A	B	C	D		E	F	G	H		I	J	K	L	M	N
27	Ghwagiza	Bogian	2	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	√	√	-	-	-
28	Ghwagiza	Dargian	6	1	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	√	-	-	-
29	Ghwagiza	Injabat Khel	4	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	√	-	-	-
30	Ghwagiza	Kabalo kas	4	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	√	-	-	-
31	Ghwagiza	Karim-Khel	10	0	0	-	-	-	√	4.0	-	-	-	-	0.0	-	√	√	-	-	-
32	Ghwagiza	Khengay	8	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	√	-	-	-
33	Ghwagiza	Mia Khel	0	2	0	-	-	-	-	0.0	-	-	-	-	0.0	-	√	√	-	-	-
34	Ghwagiza	Mana Khel	4	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	√	-	-	-
35	Ghwagiza	Saplai Jawar	12	0	0	-	-	-	√	4.0	-	-	-	-	0.0	√	√	√	-	-	-
36	Ghwagiza	Sro	2	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	√	-	-	-
37	Gad Khel		16	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
38	Gulo Khel		12	0	0	-	-	-	√	4.0	-	√	-	-	2.0	-	√	√	-	-	-
39	Hadira Kas		20	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-
40	Halim Khel		4	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
41	Hasan Kas		12	0	0	-	√	√	-	4.0	-	-	-	-	0.0	√	√	√	-	-	-
42	Jabai		4	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
43	Jokan	Arab Khel	10	0	0	√	-	-	-	4.0	-	-	-	-	0.0	√	√	-	-	-	-
44	Jokan	Baro Shekhan	24	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
45	Jokan	Sakan	5	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
46	Jokan	Durullah Khel	4	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
47	Jokan	Ghazi Qala	4	1	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
48	Jokan	Kamarkay Shekhan	40	0	0	√	-	-	-	4.5	-	-	-	-	0.0	√	√	-	-	-	-
49	Jokan	Khanami Kote	6	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
50	Jokan	Khanano Kalay	0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
51	Jokan	Kharoti	6	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
52	Jokan	Landi Shekhan	12	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-



Appendix L: Farm power, use of improved seed, fertilizer and agrochemical in Hesarak district (Cont..)

		Improved seed varieties																			
					Wheat				Maize				Use of								
		No. of farm power			Varieties				Sowing rate	Varieties				Sowing rate	Fertilizer			Agrochemical			
S/No	Main village	Sub village	Oxen	Tractor	Thresher	A	B	C	D	(S/J)	E	F	G	H	(S/J)	I	J	K	L	M	N
53	Jokan	Nargosay	20	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
54	Jokan	Saraw	0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
55	Jokan	Shinshobey	2	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
56	Jokan	Shinwari	2	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
57	Jokan	Teray	2	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-
58	Kaday		14	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
59	Khanjar		3	1	1	-	-	-	√	4.0	-	√	-	-	2.0	√	√	√	-	-	-
60	Khomar Khel	Malakan	20	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
61	Kolala	Bara Kolala	6	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
62	Kolala	Koza Kolala	8	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	√	-	-	-
63	Lajgar	Lajgar	80	1	1	√	-	-	-	4.0	√	-	-	-	2.0	√	√	-	-	-	-
64	Lajgar	Sarwar Bagh	10	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
65	Langar khel		20	0	0	-	-	-	√	4.0	-	-	-	-	0.0	√	√	√	-	-	-
66	Mia Sahib Kala		10	0	0	√	-	-	-	4.0	-	-	-	-	0.0	√	√	√	-	-	-
67	Miagan		20	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
68	Malakan		22	0	0	√	-	-	-	4.0	-	-	-	-	0.0	√	√	√	√	-	-
69	Mansur China		26	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	√	√	-	-	-
70	Mardar Dand		6	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
71	Miz Ghondi		40	0	0	-	√	√	-	4.0	-	-	-	-	0.0	√	√	√	-	-	-
72	Mohammadi		60	0	0	-	-	-	√	4.0	-	-	-	-	0.0	√	√	√	-	-	-
73	Many Shar		20	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-
74	Naser Khel		12	0	0	√	-	-	-	5.0	-	-	-	-	0.0	√	√	√	-	√	-
75	Nawar	Chahartut	4	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
76	Nawar	Dagyan	2	0	0	√	-	-	-	4.0	√	-	-	-	2.0	√	√	-	-	-	-
77	Nawar	Dando	4	0	0	√	-	-	-	4.0	√	-	-	-	2.0	√	√	-	-	-	-
78	Nawar	Spina Qala	6	0	0	√	-	-	-	4.5	-	-	-	-	0.0	√	√	-	-	-	-

Appendix L: Farm power, use of improved seed, fertilizer and agrochemical in Hesarak district (Cont..)

		Improved seed varieties																			
					Wheat				Maize							Use of					
S/No	Main village	Sub village	No. of farm power			Varieties				Sowing rate (S/J)	Varieties				Sowing rate (S/J)	Fertilizer			Agrochemical		
			Oxen	Tractor	Thresher	A	B	C	D		E	F	G	H		I	J	K	L	M	N
79	Parjina		18	1	0	√	-	-	-	4.0	-	-	-	-	0.0	√	√	-	-	-	-
80	Qalaqay		16	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
81	Qazyan		10	0	0	√	-	-	-	4.0	√	-	-	-	0.0	√	√	√	-	-	-
82	Ragha	Ragha	40	0	0	-	√	-	-	4.0	-	-	-	-	0.0	√	√	√	-	-	-
83	Ragha	Bostan Khel	4	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	√	√	-	-	-
84	Ragha	Naser Khel	16	1	0	-	-	-	-	0.0	-	-	-	-	0.0	-	√	√	-	-	-
85	Sarando Kalay		30	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
86	Seyaw Bala		20	0	0	-	-	-	√	5.0	-	-	-	-	0.0	√	√	√	-	-	-
87	Seyaw Payan		20	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
88	Shabak	Landy Shabak	12	0	0	√	-	-	-	4.5	√	-	-	-	2.5	√	√	-	-	-	-
89	Shabak	Shabak-e-Bala	20	0	0	-	√	√	-	3.5	-	√	-	-	2.0	-	√	√	-	-	-
90	Sinzi		5	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	√	-	-	-
91	Tomany	Koro Naw	8	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	√	-	-	-	-
92	Tomany	Oghuz	6	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-
93	Tori Khel		20	0	0	-	√	-	-	4.0	-	-	-	-	0.0	√	√	-	-	-	-
94	Wodisar		16	0	0	-	√	√	-	4.0	-	-	-	-	0.0	√	√	√	-	-	-
95	Yaghi Band		10	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-
96	Yakakhak		8	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	√	√	-	-	-
97	Zarif Khel		14	0	0	-	√	-	-	4.0	-	-	-	-	0.0	√	√	√	-	-	-

Wheat varieties: A = Pirsabak85 B = Inqilab91 C = Bakhtawar D = Unknown

Maize varieties: E = Shaheen F = Unknown

Fertilizer: I = DAP J = Urea K = Nitrophas

Agrochemical: L = Unknown M = 2,4-D

Appendix M: Busy time in Hesarak district

Busy time of people in a year

S/No	Main village	Sub village	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Abizangani	Boday Now	-	-	-	✓	-	✓	✓	-	-	✓	✓	-
2	Abizangani	Do Aab	-	-	-	✓	-	✓	✓	-	-	-	✓	-
3	Abizangani	Gulab Khel	-	-	-	-	-	✓	✓	-	-	✓	✓	✓
4	Abizangani	Jamal Khel	-	-	-	-	-	-	✓	-	-	-	✓	✓
5	Abizangani	Kok Darah	-	-	-	-	✓	✓	✓	✓	✓	-	✓	-
6	Abizangani	Lawar Khel	-	-	-	✓	-	✓	✓	-	-	✓	✓	✓
7	Abizangani	Ozba Khel	-	-	-	✓	✓	✓	✓	✓	✓	-	-	-
8	Abizangani	Qader Khel	-	-	-	-	-	✓	✓	✓	✓	-	-	-
9	Abizangani	Sharif Khel	-	-	-	✓	-	✓	✓	-	-	-	✓	-
10	Abizangani	Shinwari	-	-	-	-	-	✓	✓	-	-	✓	✓	-
11	Abizangani	Wati	-	-	-	-	-	✓	✓	-	-	-	✓	-
12	Alam kas		-	-	-	-	-	✓	✓	-	-	-	✓	-
13	Ali Khel		-	-	✓	-	✓	✓	-	-	-	✓	✓	-
14	Bawlay		-	-	-	✓	-	✓	-	-	-	✓	✓	-
15	Chartoot		-	-	✓	-	-	✓	-	-	-	✓	✓	-
16	Chorchang		-	-	✓	-	-	✓	-	-	-	✓	✓	-
17	Dobi		-	-	-	✓	✓	✓	✓	-	-	✓	✓	-
18	Ganju Khel		-	-	-	✓	✓	✓	✓	-	-	✓	✓	-
19	Gari	Gari	-	-	✓	-	✓	✓	-	-	-	✓	✓	-
20	Gari	Maeen Gari	-	-	-	-	✓	✓	✓	-	-	-	✓	-
21	Gari	Sar Gari	-	-	-	-	✓	✓	✓	-	-	-	✓	-
22	Gari	Ziarat Kalay	-	-	-	-	✓	✓	✓	-	-	-	✓	-
23	Gazak		-	-	-	✓	✓	-	✓	-	-	✓	✓	-
24	Ghwagiza	Adam Khel	-	-	✓	✓	-	✓	✓	-	-	-	-	-
25	Ghwagiza	Alam Khel	-	-	-	✓	✓	✓	✓	-	-	-	-	-
26	Ghwagiza	Ali Sher	-	-	✓	✓	-	✓	✓	-	-	-	-	-
27	Ghwagiza	Bogian	-	-	✓	✓	-	✓	✓	-	-	-	-	-
28	Ghwagiza	Dargian	-	-	✓	✓	-	✓	✓	-	-	-	-	-

**Table 3.3: Orchards and nurseries**

No. of villages surveyed	Total jerib of orchard	No. of village having nurseries	Acreage of			
			fruit nurseries		forest nurseries	
			No.	Jerib	No.	Jerib
97	151	5	11	2	0	0

Of 97 villages, only 24 reported of having orchards on a total of 151 jeribs of land. Furthermore, there are 11 fruit nurseries in two jeribs of land. No forest nursery was reported in the area surveyed (see Table 3.3 and Appendix I).

### 3.2 Main crops grown

The main cereal crop in the surveyed area is irrigated wheat grown in 96 villages with an average yield of 69 seer/jerib. Rainfed wheat is grown in only 29 villages with a reported average of 26 seer/jerib. Maize is grown in 92 villages with an average yield of 56 seer/jerib.

**Table 3.4: Main crops grown**

Name of crops grown	No. of villages growing	Average yield seer/jrib	Average yield seer/tree
Irrigated wheat	96	69	
Rainfed wheat	29	26	
Rice	20	73	
Maize	92	56	
Onion	10	249	
Potatoes	12	222	
Tomatoes	3	177	
Mulberry	2		4
Walnut	59		9

Potatoes, onion and tomatoes are the main vegetable crops grown in the area with an average yield of 222, 249 and 177 seer/jerib, respectively. The main fruits in the surveyed area are walnuts and mulberry grown by 59 and 2 villages, respectively (see Table 3.4 and Appendix J).

### 3.3 Products for Marketing

The main marketable products in the area are maize, wheat, apple, apricot, grape, pomegranate, walnut, watermelon, cauliflower, onion, potato, tomato. Animals like cattle, cow, donkey, goat, oxen and sheep are also raised for the market (see Table 3.5 and Appendix K).

Appendix M: Busy time in Hesarak district (Cont..)

			Busy time of people in a year											
S/No	Main village	Sub village	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
29	Ghwagiza	Injabat Khel	-	-	-	-	✓	✓	✓	-	-	-	✓	-
30	Ghwagiza	Kabalo kas	-	-	-	-	✓	-	✓	-	-	✓	-	-
31	Ghwagiza	Karim-Khel	-	-	-	✓	✓	✓	✓	-	-	✓	-	-
32	Ghwagiza	Khengay	-	-	-	-	✓	✓	-	-	-	✓	-	-
33	Ghwagiza	Mia Khel	-	-	✓	✓	✓	✓	✓	-	-	✓	-	-
34	Ghwagiza	Mana Khel	-	-	-	-	-	✓	✓	✓	-	-	✓	-
35	Ghwagiza	Saplai Jawara	-	-	-	-	-	✓	✓	✓	-	-	✓	-
36	Ghwagiza	Sra	-	-	-	-	-	✓	-	-	-	✓	✓	-
37	God Khel		-	-	-	✓	✓	✓	✓	-	-	✓	✓	-
38	Gola Khel		-	-	-	-	-	✓	✓	-	-	✓	-	-
39	Hadira Kas		-	-	-	-	✓	✓	✓	-	-	✓	-	-
40	Halim Khel		-	-	✓	✓	✓	✓	✓	-	-	-	-	-
41	Hasan Kace		-	-	-	-	-	✓	✓	✓	-	-	✓	-
42	Jabai		-	-	-	-	✓	✓	✓	-	-	-	✓	-
43	Jokan	Arab Khel	-	-	✓	-	✓	✓	-	-	-	✓	✓	-
44	Jokan	Baro Shekhan	-	-	✓	-	✓	-	-	-	-	-	✓	-
45	Jokan	Sakan	-	-	✓	-	-	✓	-	-	-	✓	✓	-
46	Jokan	Durullah Khel	✓	-	✓	-	-	-	✓	-	-	-	✓	-
47	Jokan	Ghazi Qala	-	-	-	-	-	-	-	-	-	-	-	-
48	Jokan	Kamarkay, Shekhan	-	-	✓	-	-	✓	✓	-	-	-	✓	-
49	Jokan	Khanami Kote	-	-	✓	-	✓	✓	-	-	-	-	✓	-
50	Jokan	Khanano Kalay	-	-	✓	-	-	✓	-	-	-	✓	✓	-
51	Jokan	Kharoti	-	-	-	-	-	-	-	-	-	✓	✓	-
52	Jokan	Landi Shekhan	-	-	✓	-	-	✓	-	-	-	✓	✓	-
53	Jokan	Nargosay	-	-	-	-	✓	✓	-	-	-	✓	✓	-
54	Jokan	Saraw	-	-	✓	-	-	✓	-	-	-	✓	✓	-
55	Jokan	Shinshobey	-	-	-	-	-	✓	✓	-	-	✓	✓	-
56	Jokan	Shinwari	-	-	✓	-	-	✓	✓	-	-	✓	-	-
57	Jokan	Teray	-	-	-	-	✓	✓	✓	-	-	-	✓	-

Appendix M: Busy time in Hesarak district (Cont..)

Busy time of people in a year

S/No	Main village	Sub village	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
58	Kaday		-	-	√	-	√	√	-	-	-	-	√	-
59	Khanjar		-	-	-	√	√	√	√	-	-	√	√	-
60	Khomar Khel	Malakan	-	-	√	-	√	√	-	-	-	√	√	-
61	Kolala	Bara Kolala	-	-	-	√	√	√	√	-	-	√	√	-
62	Kolala	Koza Kolala	-	-	-	√	√	√	-	-	-	√	√	-
63	Lajgar	Lajgar	-	-	√	-	√	√	-	-	-	-	√	-
64	Lajgar	Sarwar Bagh	-	-	√	-	√	√	-	-	-	√	√	-
65	Langar khel		-	-	√	-	√	√	√	-	-	-	√	-
66	Mia Sahib Kalay		-	-	-	√	√	√	√	-	-	√	√	-
67	Miagan		-	-	√	-	√	√	-	-	-	-	√	-
68	Malakan		-	-	-	-	√	√	-	-	-	-	√	-
69	Mansur China		-	-	-	-	√	√	√	-	-	-	√	-
70	Mardar Dand		-	-	-	√	√	√	-	-	-	√	√	-
71	Miz Ghondi		-	-	-	-	√	√	√	-	-	-	√	√
72	Mohammadi		-	-	-	-	√	√	√	√	-	-	-	-
73	Many Shar		-	-	-	-	√	√	√	-	-	-	√	-
74	Naser Khel		-	-	√	-	√	√	-	-	-	-	√	-
75	Nawar	Chahartut	-	-	√	-	-	√	√	-	-	-	√	-
76	Nawar	Dagyan	-	-	√	√	-	√	-	-	-	√	√	-
77	Nawar	Dando	-	-	√	-	√	√	-	-	-	-	√	-
78	Nawar	Spina Qala	-	-	√	-	-	√	-	-	-	-	√	-
79	Parjina		-	-	√	-	-	√	√	-	-	-	√	-
80	Qalaqay		-	-	√	-	-	√	-	-	-	-	√	-
81	Qazyar		-	-	-	-	√	√	√	-	-	-	√	-
82	Ragha	Ragha	-	-	√	-	√	√	-	-	-	-	√	-
83	Ragha	Bostan Khel	-	-	-	-	√	√	-	-	-	√	-	-
84	Ragha	Naser Khel	-	-	√	√	√	√	√	-	-	-	-	-
85	Sarando Kalay		-	-	√	-	√	√	-	-	-	-	√	-

Appendix M: Busy time in Hesarak district (Cont..)

			Busy time of people in a year											
S/No	Main village	Sub village	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
86	Seyaw Bala	Landy Shabak Shabak-e-Bala	-	-	-	√	√	√	-	-	-	√	√	√
87	Seyaw Payan		-	-	√	-	√	√	-	-	-	-	√	-
88	Shabak		-	-	√	-	-	√	-	-	-	-	√	-
89	Shabak		-	-	-	√	-	√	√	-	-	-	√	√
90	Sinzi	Koro Naw Oghuz	-	-	-	√	√	√	√	-	-	√	√	-
91	Tomany		-	-	-	-	-	-	√	-	-	√	√	-
92	Tomany		-	-	√	-	-	√	-	-	-	√	√	-
93	Tori Khel		-	-	√	-	√	√	√	-	-	√	√	√
94	Wodisar		-	-	-	√	-	√	√	-	-	-	√	-
95	Yaghi Band		-	-	-	-	-	√	√	-	-	-	√	-
96	Yakakhak		-	-	-	-	√	√	-	-	-	-	√	-
97	Zarif Khel		-	-	-	√	-	√	√	-	-	√	√	-

Appendix N: Illicit crop production and main reasons for growing illicit crops in Hesarak district

S/No	Main village	Sub village	Opium poppy			Hashish			Reasons for growing illicit crop	
			Area cultivated (Jerib)	Yield (Kg/J)	Addict People	Area cultivated (Jerib)	Yield (Kg/J)	Addict people	A	B
1	Abizangani	Boday Now	40	9.0	0	0	0	0	√	-
2	Abizangani	Do Aab	50	7.0	0	0	0	0	√	-
3	Abizangani	Gulab Khel	10	9.0	0	0	0	0	√	-
4	Abizangani	Kok Darah	30	7.0	0	0	0	0	√	-
5	Abizangani	Lawar Khel	20	8.0	0	0	0	0	√	-
6	Abizangani	Sharif Khel	20	8.0	0	0	0	0	√	-
7	Alam kas		20	14.0	0	0	0	1	√	√
8	Ali Khel		20	6.0	0	0	0	0	√	√
9	Bawlay		140	9.0	0	0	0	0	√	-
10	Chartoot		50	10.0	0	0	0	0	√	√
11	Chorchang		40	12.0	0	0	0	0	√	-
12	Dobi		50	14.0	0	0	0	0	√	-
13	Ganju Khel		130	10.0	0	0	0	0	√	-
14	Gari	Gari	10	8.0	0	0	0	0	√	-
15	Gari	Maeen Gari	10	11.5	0	0	0	0	√	√
16	Gari	Sar Gari	10	9.0	0	0	0	0	√	√
17	Gari	Ziarat Kalay	18	10.0	0	0	0	1	-	-
18	Gazak		20	9.0	0	0	0	0	√	-
19	Ghwagiza	Adam Khel	4	14.0	0	14	0	0	√	-
20	Ghwagiza	Alam Khel	8	13.0	0	0	0	0	√	-
21	Ghwagiza	Ali Sher	20	11.0	0	0	0	0	√	-
22	Ghwagiza	Bogian	2	13.0	0	0	0	0	√	-
23	Ghwagiza	Dargian	20	14.0	0	0	0	0	√	-
24	Ghwagiza	Injabat Khel	7	11.0	0	0	0	0	√	-
25	Ghwagiza	Kabalo kas	13	11.5	0	0	0	1	√	-
26	Ghwagiza	Karim-Khel	35	11.5	0	0	0	0	√	-
27	Ghwagiza	Khengay	10	18.0	1	0	0	0	√	-



Appendix N: Illicit crop production and main reasons for growing illicit crops in Hesarak district (Cont..)

S/No	Main village	Sub village	Opium poppy			Hashish			Reasons for growing illicit crop	
			Area cultivated (Jerib)	Yield (Kg/J)	Addict People	Area cultivated (Jerib)	Yield (Kg/J)	Addict people	A	B
28	Ghwagiza	Mia Khel	18	12.0	0	0	0	0	√	-
29	Ghwagiza	Mana Khel	4	18.0	0	0	0	2	√	-
30	Ghwagiza	Saplai Jawara	27	10.0	0	0	0	0	√	-
31	Ghwagiza	Sra	0	0.0	0	250	30	0	√	-
32	Gad Khel		40	8.0	0	0	0	0	√	-
33	Gulo Khel		20	14.0	0	0	0	0	√	-
34	Hadira Kaa		18	14.0	0	0	0	2	√	-
35	Halim Khel		30	21.0	0	0	0	0	√	-
36	Hasan Kaa		120	12.0	0	0	0	0	√	-
37	Jabai		30	14.0	0	0	0	0	√	-
38	Jokan	Arab Khel	80	12.0	0	0	0	0	√	√
39	Jokan	Baro Shekhan	30	9.0	0	0	0	0	√	-
40	Jokan	Sakan	20	10.0	0	0	0	0	√	√
41	Jokan	Durullah Khel	60	2.0	0	0	0	2	√	-
42	Jokan	Ghazi Qala	50	6.0	0	0	0	6	√	-
43	Jokan	Kamarkay Shekhan	140	7.0	0	0	0	12	√	-
44	Jokan	Khanami Kote	32	6.0	0	0	0	5	√	-
45	Jokan	Khanano Kalay	30	8.0	0	0	0	0	√	√
46	Jokan	Kharoti	0	0.0	0	0	0	1	-	-
47	Jokan	Landi Shekhan	25	8.0	0	0	0	0	√	-
48	Jokan	Nargosay	70	14.0	0	0	0	7	√	-
49	Jokan	Saraw	2	10.0	0	0	0	0	√	-
50	Jokan	Shinshobey	4	13.0	0	0	0	0	√	√
51	Jokan	Shinwari	10	6.0	0	0	0	0	√	-
52	Jokan	Teray	3	5.0	0	0	0	0	√	-
53	Kaday		40	6.0	0	0	0	5	√	-
54	Khanjar		250	4.0	0	0	0	0	√	-

Appendix N: Illicit crop production and main reasons for growing illicit crops in Hesarak district (Cont..)

S/No	Main village	Sub village	Opium poppy		Addict People	Hashish		Addict people	Reasons for growing illicit crop	
			Area cultivated (Jerib)	Yield (Kg/J)		Area cultivated (Jerib)	Yield (Kg/J)		A	B
55	Khomar Khel	Malakan	40	10.0	0	0	0	0	√	-
56	Kolala	Bara Kolala	6	4.0	0	0	0	0	√	-
57	Kolala	Koza Kolala	30	6.0	0	0	0	0	√	-
58	Lajgar	Lajgar	350	10.0	0	0	0	5	√	-
59	Lajgar	Sarwar Bagh	5	6.0	0	0	0	0	√	-
60	Langar khel		80	17.5	0	0	0	4	√	√
61	Mia Sahib Kalay		80	8.0	0	0	0	0	√	-
62	Miagan		50	6.0	0	0	0	0	√	-
63	Malakan		50	14.0	0	0	0	0	√	-
64	Mansur China		40	11.5	0	0	0	2	√	√
65	Mardar Dand		10	5.0	0	0	0	0	√	-
66	Miz Ghondi		200	14.0	0	0	0	0	√	-
67	Mohammadi		40	8.0	0	0	0	1	√	√
68	Many Shar		36	14.0	0	0	0	0	√	-
69	Naser Khel		50	17.5	0	0	0	3	√	√
70	Nawar	Chahartut	10	7.0	0	0	0	2	√	-
71	Nawar	Dagyan	10	7.0	0	0	0	0	√	-
72	Nawar	Dando	20	8.0	0	0	0	0	√	-
73	Nawar	Spina Qala	15	1.5	0	0	0	5	√	-
74	Parjina		50	5.0	0	0	0	0	√	-
75	Qalaqay		10	5.0	0	0	0	0	√	-
76	Qazyran		17	14.0	0	0	0	0	√	√
77	Ragha	Ragha	80	18.0	0	0	0	3	√	-
78	Ragha	Bostan Khel	26	15.0	0	0	0	1	√	-
79	Ragha	Naser Khel	50	14.0	0	0	0	0	√	√
80	Sarando Kalay		50	14.0	0	0	0	10	√	√
81	Seyaw Bala		100	9.0	0	0	0	0	√	-
82	Seyaw Payan		100	6.0	0	0	0	4	√	-

Appendix N: Illicit crop production and main reasons for growing illicit crops in Hesarak district (Cont..)

S/No	Main village	Sub village	Opium poppy			Hashish			Reasons for growing illicit crop	
			Area cultivated (Jerib)	Yield (Kg/J)	Addict People	Area cultivated (Jerib)	Yield (Kg/J)	Addict people	A	B
83	Shabak	Landy Shabak	40	12.0	0	0	0	0	√	-
84	Shabak	Shabak-e-Bala	120	8.0	0	0	0	0	√	-
85	Sinzi		15	8.0	0	0	0	0	√	-
86	Tori Khel		100	10.0	0	0	0	0	√	-
87	Wodisar		150	9.0	0	0	0	2	√	-
88	Yaghi Band		28	14.0	0	0	0	0	√	√
89	Yakakhak		5	7.0	0	0	0	0	√	√
90	Zarif Khel		200	11.0	0	0	0	0	√	-

A = High income

B = Low water requirement

Appendix O: Irrigation water sources, activities need for normal, irrigation water sufficiency and main reasons for water shortage in Hesarak district

S/No	Main village	Sub village	Canal/Stream			Activities needed for normal flow				Water shortage period		Reasons for irrigation water shortage					
			% of land irrigated	Flow status		A	B	C	D	Form	To	E	F	G	H	I	J
				Normal	Abnormal												
1	Abizangani	Boday Now	100	-	√	-	√	√	-	-	-	-	-	-	-	-	-
2	Abizangani	Do Aab	100	-	√	-	√	√	-	-	-	-	-	-	-	-	-
3	Abizangani	Gulab Khel	100	-	√	√	√	√	-	-	-	-	-	-	-	-	-
4	Abizangani	Jamal Khel	70	-	√	√	√	√	-	-	-	√	-	-	-	-	-
5	Abizangani	Kok Darah	100	-	√	-	√	√	-	-	-	-	-	-	-	-	-
6	Abizangani	Lawar Khel	100	-	√	-	√	√	-	-	-	-	-	-	-	-	-
7	Abizangani	Ozba Khel	100	-	√	-	√	-	-	-	-	-	-	-	-	-	-
8	Abizangani	Qader Khel	100	-	√	-	√	√	-	-	-	-	-	-	-	-	-
9	Abizangani	Sharif Khel	100	-	√	-	√	√	-	-	-	-	-	-	-	-	-
10	Abizangani	Shinwari	100	-	√	√	√	√	-	-	-	-	-	-	-	-	-
11	Abizangani	Wati	100	-	√	-	√	√	-	-	-	-	-	-	-	-	-
12	Ali Khel		100	-	√	-	√	-	-	JUN	OCT	√	-	-	-	-	-
13	Chartoot		100	-	√	-	√	-	-	JUN	OCT	√	-	-	-	-	-
14	Chorchang		90	-	√	-	√	√	-	JUN	OCT	√	-	-	-	-	-
15	Dobi		40	√	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Ganju Khel		100	-	√	√	√	√	-	-	-	-	-	-	-	-	-
17	Gari	Ziarat Kalay	100	-	√	√	√	-	√	JUN	NOV	√	-	-	-	-	-
18	Ghwagiza	Adam Khel	100	-	√	-	√	-	-	JUN	OCT	√	-	-	-	-	-
19	Ghwagiza	Alam Khel	100	-	√	-	√	-	-	JUN	OCT	√	-	-	-	-	-
20	Ghwagiza	Ali Sher	100	-	√	-	√	-	-	JUN	OCT	√	-	-	-	-	-
21	Ghwagiza	Bogian	100	-	√	-	√	-	-	JUN	OCT	√	-	-	-	-	-
22	Ghwagiza	Dargian	100	-	√	-	√	-	-	JUN	OCT	√	-	-	-	-	-
23	Ghwagiza	Injabat Khel	100	-	√	-	√	-	-	JUN	OCT	√	-	-	-	-	-
24	Ghwagiza	Kabalo kas	100	-	√	-	√	-	-	JUN	OCT	√	-	-	-	-	-
25	Ghwagiza	Karim-Khel	100	-	√	-	√	√	-	JUN	OCT	√	-	-	-	-	-
26	Ghwagiza	Khengay	100	-	√	√	√	-	-	JUN	NOV	√	-	-	-	-	-
27	Ghwagiza	Mia Khel	100	-	√	-	√	-	-	JUL	OCT	√	-	-	-	-	-

Appendix O: Irrigation water sources, activities need for normal, irrigation water sufficiency and main reasons for water shortage in Hesarak district (Cont..)

S/No	Main village	Sub village	Canal/Stream			Activities needed for normal flow				Water shortage period		Reasons for irrigation water shortage					
			% of land irrigated	Flow status		A	B	C	D	Form	To	E	F	G	H	I	J
				Normal	Abnormal												
28	Ghwagiza	Mana Khel	100	-	√	-	√	-	√	MAY	OCT	√	-	-	-	-	-
29	Ghwagiza	Saplai Jawara	100	-	√	-	√	√	-	JUN	OCT	√	-	-	-	-	-
30	Ghwagiza	Sro	100	√	-	-	-	-	-	JUN	OCT	√	-	-	-	-	-
31	Gad Khel		60	√	-	-	-	-	-	-	-	-	-	-	-	-	-
32	Gulo Khel		100	-	√	√	√	-	√	MAY	NOV	√	-	-	-	-	-
33	Halim Khel		100	-	√	-	√	-	-	JUN	DEC	√	-	-	-	-	-
34	Hasan Kas		100	-	√	√	√	√	-	AUG	SEP	√	-	-	-	-	-
35	Jabai		100	-	√	-	√	-	-	JUN	DEC	√	-	-	-	-	-
36	Jokan	Arab Khel	100	-	√	-	√	-	-	JUN	NOV	√	-	-	-	-	-
37	Jokan	Baro Shekhan	100	-	√	-	√	-	-	JUL	NOV	√	-	-	-	-	-
38	Jokan	Sakan	100	√	-	-	-	-	-	JUN	SEP	√	-	-	-	-	-
39	Jokan	Durullah Khel	100	-	√	-	√	-	-	JUN	NOV	√	-	-	-	-	-
40	Jokan	Ghazi Qala	100	-	√	√	-	-	-	JUN	NOV	√	-	-	-	-	√
41	Jokan	Kamarkay Shekhan	100	-	√	-	√	-	-	JUN	NOV	√	-	-	-	-	-
42	Jokan	Khanami Kote	100	-	√	-	√	-	-	JUN	DEC	√	-	-	-	-	-
43	Jokan	Khanano Kalay	100	-	√	-	√	-	-	JUN	SEP	√	-	-	-	-	-
44	Jokan	Landi Shekhan	100	-	√	√	√	-	-	JUN	OCT	√	-	-	-	-	-
45	Jokan	Nargosay	100	-	√	-	√	-	-	JUN	NOV	√	-	-	-	-	-
46	Jokan	Saraw	100	√	-	-	-	-	-	JUN	OCT	√	-	-	-	-	-
47	Jokan	Shinshobey	100	√	-	-	-	-	-	JUN	NOV	-	-	-	-	-	-
48	Jokan	Shinwari	100	√	-	-	-	-	-	JUL	OCT	√	-	-	-	-	-
49	Jokan	Teray	100	-	√	-	-	√	-	-	-	-	-	√	-	-	-
50	Khomar Khel	Malakan	100	-	√	-	√	-	-	JUN	OCT	√	-	-	-	-	-
51	Lajgar	Lajgar	50	√	-	-	-	-	-	JUN	APR	√	-	-	-	√	-
52	Lajgar	Sarwar Bagh	100	-	√	-	√	-	-	JUN	OCT	√	-	-	-	-	-
53	Langar khel		100	-	√	√	√	-	√	JUN	OCT	√	-	-	-	-	-
54	Mia Sahib Kalay		100	-	√	-	√	√	-	SEP	JUL	√	-	-	-	-	-

Appendix O: Irrigation water sources, activities need for normal, irrigation water sufficiency and main reasons for water shortage in Hesarak district (Cont..)

S/No	Main village	Sub village	Canal/Stream		Activities needed for normal flow				Water shortage period		Reasons for irrigation water shortage						
			% of land irrigated	Flow status		A	B	C	D	Form	To	E	F	G	H	I	J
				Normal	Abnormal												
55	Miagan		100	-	√	-	√	-	-	-	-	-	-	-	-	-	-
56	Malakan		100	√	-	√	√	-	√	JUN	OCT	√	-	-	-	-	-
57	Miz Ghondi		100	-	√	√	√	√	-	JUL	SEP	√	-	-	-	-	-
58	Nawar	Chahartut	100	-	√	-	√	-	-	-	-	-	-	-	-	-	-
59	Nawar	Dagyan	100	√	-	-	-	-	-	JUN	SEP	√	-	-	-	-	-
60	Nawar	Dando	100	√	-	-	√	-	-	JUN	AUG	√	-	-	-	-	-
61	Nawar	Spina Qala	100	-	√	-	√	-	-	OCT	NOV	-	-	√	-	-	-
62	Parjina		100	-	√	-	√	-	-	-	-	-	-	-	√	-	-
63	Ragha	Ragha	100	-	√	√	√	-	-	MAY	OCT	√	-	-	-	-	-
64	Ragha	Bostan Khel	100	-	√	√	√	√	-	MAY	OCT	√	-	-	-	-	-
65	Ragha	Naser Khel	100	-	√	√	√	-	-	JUN	OCT	√	-	-	-	-	-
66	Sarando Kalay		100	-	√	-	√	-	-	JUN	SEP	√	-	-	√	-	-
67	Seyaw Payan		70	√	-	-	-	-	-	JUN	JUL	-	-	-	-	-	-
68	Shabak	Landy Shabak	100	-	√	-	√	-	-	JUL	SEP	√	-	-	-	-	-
69	Shabak	Shabak-e-Bala	100	-	√	√	√	√	-	JUL	SEP	√	-	-	-	-	-
70	Sinzi		100	-	√	-	√	√	-	JUN	JUL	√	-	√	-	-	-
71	Tori Khel		100	-	√	-	-	√	-	JUL	SEP	√	-	-	-	-	-
72	Wadisar		100	-	√	√	√	√	-	JUL	SEP	√	-	-	-	-	-
73	Yaghi Band		50	-	√	-	√	√	-	JUN	NOV	√	-	-	-	-	-
74	Zarif Khel		100	-	√	-	√	√	-	JUL	SEP	√	-	-	-	-	-

A= Canal cleaning  
C= Repairing of related structures  
E= Drought  
G= Stream filled by flood  
I= Water infiltration in stream

B= Construction of diversion dam  
D= Protection wall  
F= Dam damaged by flood  
H= Karez damaged  
J= Lack of reservoir

**Table 3.5: Products taken to market**

List of Products	Number of villages replied	List of Products	Number of villages replied
Maize	4	Cattle	27
Wheat	2	Cow	59
Apple	2	Donkey	30
Apricot	5	Goat	80
Grape	2	Oxen	8
Pomegranate	1	Sheep	85
Walnut	51	Almond	1
Watermelon	1	Animal skin	3
Cauliflower	1	Cotton	2
Onion	7	Hashish	1
Potato	7	Opium	85
Tomato	2	Wool	23

### 3.4 Improved seed, Fertilizer and Agrochemical

Of 97 villages, 29 (30%) reported having sown improved wheat seed. The average seeding rate for wheat was 4 seer per jerib. Use of improved rice and maize seed was reported by 3 and 8 villages, respectively. (For the name of varieties see table 3.6 and Appendix L)

**Table 3.6: Use of improved seed**

Crops	No. of villages reported	% of villages reported	Average seeding rate seer/jerib	Name of varieties
Wheat	29	30	4	Bakhtawar 92 Inqilab91 Pirsabak85 Unknown
Maize	8	8	2	Shaheen Unknown
Rice	3	3	1	Munday Unknown

No. of villages surveyed: 97

Farmers from 93 villages in the surveyed villages (96%) used chemical fertilizer on their crops. The chemical fertilizer used was cited as DAP, Nitrophos and Urea with the average prices of Afs. 875,300, 672,800 and 512,700, respectively. The application of 2,4-D, and another unknown herbicide was reported only by two villages (see Table 3.7 and Appendix L).

Appendix 01: Irrigation water sources, activities need for normal, irrigation water sufficiency and main reasons for water shortage in Hesarak district

S/No	Main village	Sub village	Karez			Activities needed for normal flow					Water shortage period		Reasons for Irrigation water shortage						
			% of land irrigated	Flow status		A	B	C	D	E	From	To	F	G	H	I	J	K	
				Normal	Abnormal														
1	Bawlay		100	-	✓	-	✓	✓	-	✓	-	-	-	-	-	-	-	-	
2	Dobi		60	-	✓	-	✓	✓	✓	-	-	-	-	-	-	-	-	-	
3	Gazak		100	-	✓	-	✓	✓	✓	-	JUN	SEP	✓	-	-	-	-	-	
4	God Khel		40	-	✓	-	✓	✓	✓	-	-	-	-	-	-	-	-	-	
5	Hadira Kas		50	-	✓	-	✓	✓	✓	-	JUN	NOV	✓	-	-	-	-	-	
6	Khanjar		100	-	✓	-	✓	✓	✓	-	-	-	-	-	-	-	-	-	
7	Kolala	Bara Kolala	100	-	✓	-	✓	✓	✓	-	JUN	OCT	✓	-	-	-	-	-	
8	Kolala	Koza Kolala	100	-	✓	-	✓	✓	✓	-	JUN	SEP	✓	-	-	-	-	-	
9	Lajgar	Lajgar	50	-	✓	-	-	✓	-	-	JUN	APR	✓	-	-	✓	-	-	
10	Mansur China		100	-	✓	-	✓	✓	✓	-	JUL	NOV	✓	-	-	-	-	-	
11	Mardar Dand		100	-	✓	✓	-	✓	✓	-	JUN	OCT	✓	-	-	-	-	-	
12	Mohammadi		100	-	✓	-	✓	✓	✓	-	JUN	OCT	✓	-	-	-	-	-	
13	Naesr Khel		95	-	✓	-	✓	✓	✓	-	JUN	NOV	✓	-	-	-	-	-	
14	Qazyan		100	-	✓	-	✓	✓	✓	-	JUN	OCT	✓	-	-	-	-	-	
15	Seyaw Bala		100	-	✓	-	✓	✓	✓	-	JAN	MAR	-	-	-	✓	-	-	
16	Yaghi Band		50	✓	-	-	-	-	-	-	JUN	NOV	✓	-	-	-	-	-	
17	Yakakhak		100	-	✓	-	✓	✓	✓	-	MAY	NOV	✓	-	-	-	-	-	

A= Canal cleaning  
D= Cleaning of Karez channel  
G= Dam damaged by flood  
J= Water infiltration in stream

B= Extension of Karez channel  
E= Protection wall  
H= Stream filled by flood  
K= Lack of reservoir

C= Cleaning of Karez  
F= Drought  
I= Karez damaged



Appendix O2: Irrigation water sources, activities need for normal, irrigation water sufficiency and main reasons for water shortage in Hesarak district

S/No	Main village	Sub village	Spring			Activities needed for normal flow					Water shortage period		Reasons for Irrigation water shortage					
			% of land irrigated	Flow status		A	B	C	D	E	From	To	F	G	H	I	J	K
				Normal	Abnormal													
1	Abizangani	Jamal Khel	30	-	√	-	-	-	√	-	-	-	√	-	-	-	-	-
2	Alam kas		100	-	√	-	-	√	-	-	JUN	NOV	√	-	-	-	-	-
3	Chorchang		10	-	√	-	-	-	-	√	JUN	OCT	√	-	-	-	-	-
4	Gari	Gari	100	-	√	-	-	-	√	-	JUN	SEP	√	-	-	-	-	-
5	Gari	Maeen Gari	100	-	√	-	-	√	-	-	JUN	NOV	√	-	-	-	-	-
6	Gari	Sar Gari	100	√	-	-	-	-	-	-	JUN	NOV	√	-	-	-	-	-
7	Hadira Kas		50	√	-	-	-	-	-	-	JUN	NOV	√	-	-	-	-	-
8	Jokan	Kharoti	100	-	√	-	-	-	√	-	APR	JUN	√	-	-	-	-	-
9	Kaday		100	√	-	-	-	-	-	-	JUN	OCT	√	-	-	-	-	-
10	Many Shar		100	-	√	-	-	√	-	-	MAY	NOV	√	-	-	-	-	-
11	Naser Khel		5	-	√	-	-	√	-	-	JUN	NOV	√	-	-	-	-	-
12	Qalaqay		100	-	√	-	-	-	-	√	JUN	OCT	√	-	-	-	-	-
13	Seyaw Payan		30	√	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Tomany	Koro Naw	100	-	√	-	-	-	-	√	JUN	NOV	√	-	-	-	-	-
15	Tomany	Oghuz	100	-	√	-	-	-	-	√	JUN	NOV	√	-	-	-	√	-

A= Canal cleaning

B= Construction of diversion dam

C= Repairing of related structures

D= Cleaning of spring

E= Construction of reservoir

F= Drought

G= Dam damaged by flood

H= Stream filled by flood

I= Karez damaged

J= water infiltration in steram

Appendix P: Livestock ownership and poultry in Hesarak district

S/No	Main village	Sub village	No. of Cattle except oxen	No. of sheep + goats	No. of camel	No. of donkey	No. of horse	No. of chicken/family	% of improved chicken
1	Abizangani	Boday Now	130	600	0	50	0	12	0
2	Abizangani	Do Aab	80	500	0	40	0	10	0
3	Abizangani	Gulab Khel	50	80	0	20	0	10	0
4	Abizangani	Jamal Khel	6	60	0	3	0	13	0
5	Abizangani	Kok Darah	25	270	0	10	0	5	0
6	Abizangani	Lawar Khel	80	160	0	40	0	15	0
7	Abizangani	Ozba Khel	15	115	0	5	0	8	0
8	Abizangani	Qader Khel	130	500	0	30	0	9	0
9	Abizangani	Sharif Khel	80	240	0	40	0	14	0
10	Abizangani	Shinwari	7	200	0	6	0	12	0
11	Abizangani	Wati	80	300	0	60	0	10	0
12	Alam kas		30	80	0	15	2	17	0
13	Ali Khel		60	500	0	15	0	10	0
14	Bawlay		260	860	0	70	0	10	0
15	Chartoot		150	400	0	30	0	0	0
16	Chorchang		50	500	0	15	0	6	0
17	Dobi		60	90	0	10	0	10	0
18	Ganju Khel		60	20	0	4	0	10	0
19	Gari	Gari	20	110	0	13	0	10	0
20	Gari	Maeen Gari	60	200	0	10	0	5	0
21	Gari	Sar Gari	12	200	0	7	0	15	0
22	Gari	Ziarat Kalay	70	300	0	10	1	15	0
23	Gazak		210	300	0	40	0	15	0
24	Ghwagiza	Adam Khel	10	30	0	4	0	6	0
25	Ghwagiza	Alam Khel	15	100	0	10	0	8	0
26	Ghwagiza	Ali Sher	30	300	0	15	0	8	0
27	Ghwagiza	Bogian	14	116	0	10	0	10	0
28	Ghwagiza	Dargian	23	140	0	16	0	20	0
29	Ghwagiza	Injabat Khel	0	15	0	6	0	12	0
30	Ghwagiza	Kabalo kas	15	120	0	8	0	9	0
31	Ghwagiza	Karim-Khel	70	240	0	20	0	6	0
32	Ghwagiza	Khengay	16	180	0	5	1	17	0
33	Ghwagiza	Mia Khel	60	0	0	10	0	20	0

Appendix P: Livestock ownership and poultry in Hesarak district (Cont..)

S/No	Main village	Sub village	No. of Cattle except oxen	No. of sheep + goats	No. of camel	No. of donkey	No. of horse	No. of chicken/family	% of improved chicken
34	Ghwagiza	Mana Khel	10	75	2	15	0	15	0
35	Ghwagiza	Saplai Jawara	100	190	0	60	3	8	0
36	Ghwagiza	Sra	100	2000	7	30	0	5	0
37	Gad Khel		80	160	0	30	0	10	0
38	Gulo Khel		250	20	0	5	8	7	0
39	Hadira Kas		27	65	0	14	0	17	0
40	Halim Khel		100	120	0	20	0	8	0
41	Hasan Kas		40	30	0	18	0	13	0
42	Jabai		15	20	0	4	0	6	0
43	Jokan	Arab Khel	100	200	0	25	0	7	0
44	Jokan	Baro Shekhan	35	80	0	10	0	7	0
45	Jokan	Sakan	8	15	0	6	0	9	0
46	Jokan	Durullaah Khel	20	48	0	10	0	12	0
47	Jokan	Ghazi Qala	120	500	0	40	0	15	0
48	Jokan	Kamarkay Shekhan	100	600	0	50	0	10	0
49	Jokan	Khanami Kote	50	60	0	12	0	10	0
50	Jokan	Khanano Kalay	25	30	0	5	0	6	0
51	Jokan	Kharoti	30	500	0	14	0	6	0
52	Jokan	Landi Shekhan	40	800	0	12	0	10	0
53	Jokan	Nargosay	100	150	0	30	5	8	0
54	Jokan	Saraw	15	100	0	5	0	10	0
55	Jokan	Shinshobey	10	100	0	0	0	5	0
56	Jokan	Shinwari	60	120	0	16	1	15	0
57	Jokan	Teray	12	350	0	12	0	0	8
58	Kaday		35	120	0	12	0	13	0
59	Khanjar		160	300	0	30	0	8	0
60	Khomar Khel	Malakan	60	250	0	25	0	9	0
61	Kolala	Bara Kolala	40	50	0	12	0	13	0
62	Kolala	Koza Kolala	160	600	0	30	0	15	0
63	Lajgar	Lajgar	800	1500	0	250	30	11	0
64	Lajgar	Sarwar Bagh	60	200	0	15	0	5	0
65	Langar khel		200	140	0	25	3	9	0
66	Mia Sahib Kalay		140	250	0	40	0	20	0

Appendix P: Livestock ownership and poultry in Hesarak district (Cont..)

S/No	Main village	Sub village	No. of Cattle except oxen	No. of sheep + goats	No. of camel	No. of donkey	No. of horse	No. of chicken/family	% of improved chicken
67	Miagan		80	40	0	15	0	12	0
68	Malakan		60	100	0	18	10	8	0
69	Mansur China		120	800	0	25	4	5	0
70	Mardar Dand		15	20	0	4	0	10	0
71	Miz Ghondi		200	500	0	45	3	12	0
72	Mohammadi		200	500	0	80	3	5	0
73	Many Shar		30	200	0	20	0	18	0
74	Naser Khel		100	110	0	25	0	8	0
75	Nawar	Chahartut	60	200	0	15	0	5	0
76	Nawar	Dagyan	70	300	0	20	0	8	0
77	Nawar	Dando	90	250	0	25	0	10	0
78	Nawar	Spina Qala	45	80	0	20	0	15	0
79	Parjina		80	250	0	40	0	15	0
80	Qalaqay		120	500	0	30	2	18	0
81	Qazyar		30	150	0	5	1	8	0
82	Ragha	Ragha	180	200	0	15	0	5	0
83	Ragha	Bostan Khel	30	45	0	4	0	5	0
84	Ragha	Naser Khel	80	160	0	8	0	8	0
85	Sarando Kalay		250	600	0	50	0	7	0
86	Seyaw Bala		80	200	0	10	0	8	0
87	Seyaw Payan		120	40	0	12	0	0	0
88	Shabak	Landy Shabak	80	300	0	30	0	10	0
89	Shabak	Shabak-e-Bala	90	300	0	30	0	14	0
90	Sinzi		35	100	0	12	0	10	0
91	Tomany	Koro Naw	15	680	0	14	0	10	0
92	Tomany	Oghuz	20	800	0	10	0	8	0
93	Tori Khel		120	150	0	30	0	10	0
94	Wodisar		20	100	0	30	0	14	0
95	Yaghi Band		50	300	0	25	0	15	0
96	Yakakhak		10	300	0	5	0	4	0
97	Zarif Khel		200	400	0	50	0	15	0

Appendix Q: Education facilities and funding sources in Hesarak district

S/No	Main village	Sub village	School name	Establish year	School level				students		school		number of male teacher	fund			
					A	B	C	D	Boys	Girls	Boys	Girls		E	F	G	H
1	Jokan	Khanano Kalay	Jokan	1991	√	-	-	-	70	0	15	10	2	√	-	-	-
2	Jokan	Nargosay	Jokan	1993	-	-	√	-	250	0	30	20	12	-	√	-	-
3	Lajgar	Lajgar	Lajgar school	1996	-	√	-	-	125	0	120	300	4	√	-	-	-
4	Mai Sahib Kalay		Al-Hanafia	1993	-	√	-	-	300	0	30	80	16	√	-	-	-
5	Maigan		Sarndo	1993	-	√	-	-	208	0	30	50	6	-	√	-	-
6	Malakan		Malakan school	1990	√	-	-	-	56	78	15	25	2	-	√	-	-
7	Seyaw Payan		Koz seyaw	1975	-	√	-	-	150	41	30	40	8	-	√	-	-
8	Shabak	Shabak-e-Bala	Hesarak Ghalzai	1944	-	-	-	√	700	0	90	200	23	√	√	-	-
9	Zarif Khel		Zarif Khel	1990	√	-	-	-	60	60	50	60	2	-	√	-	-

A= Home school

B= Primary

C= Middle

D= High school

E= Government

F= NGO (AGBASED) Afghan German Basic Education

G= Community

H= Other

Appendix R: Status of school buildings in Hesarak district

S/No	Main village	Sub village	school building	Status of school building		Number of rooms	School building belong		
				Damaged	Undamaged		Government	Community	Rent
1	Jokan	Khanano Kalay	N	-	-	0	-	√	-
2	Jokan	Nargosay	Y	√	-	14	√	-	-
3	Lajgar	Lajgar	Y	-	√	8	-	√	-
4	Mia Sahib Kalay		Y	√	-	6	√	-	-
5	Miagan		N	-	-	0	-	-	-
6	Malakan		N	-	-	0	-	-	-
7	Seyaw Payan		Y	-	√	11	√	-	-
8	Shabak	Shabak-e-Bala	N	-	-	0	-	-	-
9	Zarif Khel		N	-	-	0	-	-	-

Appendix S: Number of literate people in Hesarak district

S/No	Main village	Sub village	Number of literate people age (15-30)		Number of literate people age (31-45)		Number of literate people age >45		Distance from the nearest school (Km)	Parents interested in a school
			Male	Female	Male	Female	Male	Female		
1	Abizangani	Boday Now	10	0	0	0	0	0	11.0	Y
2	Abizangani	Do Aab	6	0	3	0	0	0	10.0	Y
3	Abizangani	Gulab Khel	6	0	0	0	0	0	12.0	Y
4	Abizangani	Jamal Khel	0	0	0	0	0	0	20.0	Y
5	Abizangani	Kok Darah	3	0	0	0	0	0	12.0	Y
6	Abizangani	Lawar Khel	15	0	0	0	0	0	16.0	Y
7	Abizangani	Ozba Khel	0	0	0	0	0	0	25.0	Y
8	Abizangani	Qader Khel	0	0	0	0	0	0	26.0	Y
9	Abizangani	Sharif Khel	0	0	0	0	0	0	18.0	Y
10	Abizangani	Shinwari	1	0	1	0	0	0	10.0	Y
11	Abizangani	Wati	0	0	0	0	0	0	25.0	Y
12	Alam Kas		12	0	0	0	0	0	12.0	Y
13	Ali Khel		10	0	6	0	0	0	1.0	Y
14	Bawlay		16	0	0	0	0	0	14.0	Y
15	Chartoot		30	0	20	0	15	0	0.0	N
16	Chorchang		0	0	0	0	0	0	3.0	Y
17	Dobi		0	0	0	0	0	0	5.0	Y
18	Ganju Khel		10	0	4	0	0	0	4.0	Y
19	Gari	Gari	0	0	0	0	0	0	1.0	Y
20	Gari	Maeen Gari	1	0	0	0	0	0	12.0	Y
21	Gari	Sar Gari	0	0	0	0	0	0	17.0	Y
22	Gari	Ziarat Kalay	3	0	2	0	0	0	14.0	Y
23	Gazak		2	0	0	0	0	0	25.0	N
24	Ghwagiza	Adam Khel	3	3	3	0	4	0	19.0	Y
25	Ghwagiza	Alam Khel	6	0	3	0	0	0	17.5	Y
26	Ghwagiza	Ali Sher	10	0	4	0	0	0	18.0	Y
27	Ghwagiza	Bogian	3	1	4	0	3	0	19.0	Y
28	Ghwagiza	Dargian	20	0	2	0	0	0	18.0	Y
29	Ghwagiza	Injabat Khel	6	0	0	0	0	0	18.0	Y
30	Ghwagiza	Kabalo kas	5	0	2	0	0	0	25.0	Y
31	Ghwagiza	Karim-Khel	20	0	6	0	2	0	16.0	Y
32	Ghwagiza	Khengay	8	0	3	0	0	0	27.0	Y

Appendix S: Number of literate people in Hesarak district (Cont..)

S/No	Main village	Sub village	Number of literate people age (15-30)		Number of literate people age (31-45)		Number of literate people age >45		Distance from the nearest school (Km)	Parents interested in a school
			Male	Female	Male	Female	Male	Female		
33	Ghwagiza	Mia Khel	6	0	0	0	0	0	13.0	Y
34	Ghwagiza	Mana Khel	10	0	5	0	2	0	30.0	Y
35	Ghwagiza	Saplai Zawara	10	0	3	0	0	0	15.0	Y
36	Ghwagiza	Sra	20	0	0	0	0	0	31.0	Y
37	God Khel		0	0	6	0	0	0	7.0	Y
38	Gola Khel		15	0	6	0	5	0	3.0	Y
39	Hadira Kas		3	0	1	0	0	0	2.0	Y
40	Halim Khel		15	2	8	0	1	0	6.0	Y
41	Hasan Kas		7	0	1	0	0	0	2.0	Y
42	Jabai		3	0	1	0	1	0	2.0	Y
43	Jokan	Arab Khel	25	0	20	0	10	0	1.0	Y
44	Jokan	Baro Shekhan	5	0	3	0	0	0	1.0	Y
45	Jokan	Sakan	10	0	6	0	2	0	0.5	Y
46	Jokan	Durullah Khel	6	0	0	0	1	0	0.5	Y
47	Jokan	Ghazi Qala	0	0	0	0	0	0	2.0	Y
48	Jokan	Kamarkay Shekhan	0	0	0	0	0	0	3.0	Y
49	Jokan	Khanami Kote	3	0	2	0	1	0	0.5	N
50	Jokan	Khanano Kalay	30	10	20	0	10	0	0.0	Y
51	Jokan	Kharoti	0	0	1	0	0	0	8.0	Y
52	Jokan	Landi Shekhan	4	0	0	0	0	0	2.0	Y
53	Jokan	Nargosay	20	0	14	0	5	0	0.0	Y
54	Jokan	Saraw	0	0	0	0	0	0	4.0	Y
55	Jokan	Shinshobey	0	0	0	0	0	0	5.0	Y
56	Jokan	Shinwary	5	0	1	0	0	0	2.0	Y
57	Jokan	Teray	0	0	0	0	0	0	8.0	Y
58	Kaday		3	0	1	0	0	0	3.0	Y
59	Khanj		5	0	0	0	0	0	9.0	Y
60	Khomar Khel	Malakan	16	0	10	0	6	0	1.5	Y
61	Kolala	Bara Kolala	0	0	0	0	0	0	10.0	Y
62	Kolala	Koza Kolala	4	0	1	0	0	0	12.0	Y
63	Lajgar	Lajgar	5	0	30	0	4	0	0.0	Y
64	Lajgar	Sarwar Bagh	0	0	0	0	0	0	5.0	Y
65	Langar khel		40	2	15	0	5	0	3.0	Y



Appendix S: Number of literate people in Hesarak district (Cont..)

S/No	Main village	Sub village	Number of literate people age (15-30)		Number of literate people age (31-45)		Number of literate people age >45		Distance from the nearest school (Km)	Parents interested in a school
			Male	Female	Male	Female	Male	Female		
66	Mia Sahib Kalay		10	0	0	0	3	0	0.0	N
67	Miagan		15	0	8	0	1	0	0.0	N
68	Malakan		30	0	12	0	6	0	0.0	Y
69	Mansoor China		0	0	0	0	0	0	35.0	Y
70	Mardar Dand		0	0	0	0	0	0	10.0	Y
71	Miz Ghondi		20	3	10	0	4	0	1.0	Y
72	Mohammadi		14	0	0	0	0	0	10.0	Y
73	Many Shar		2	0	1	0	0	0	22.0	Y
74	Naser Khel		15	0	4	0	0	0	12.0	Y
75	Nawar	Chahartut	10	1	15	1	2	0	2.0	Y
76	Nawar	Dagyan	15	4	10	0	5	0	2.0	Y
77	Nawar	Dando	20	0	15	0	6	0	2.0	Y
78	Nawar	Spina Qala	10	0	20	2	10	2	1.5	Y
79	Parjina		8	0	10	0	5	0	5.0	Y
80	Qalaqay		10	0	2	0	5	0	3.0	Y
81	Qazyar		1	0	1	0	0	0	7.0	Y
82	Ragha	Ragha	20	0	10	0	2	0	3.0	Y
83	Ragha	Bostan Khel	10	0	6	0	0	0	0.0	Y
84	Ragha	Naser Khel	6	0	2	0	1	0	0.5	Y
85	Sarando Kalay		20	0	10	0	0	0	2.0	Y
86	Seyaw Bala		8	0	8	0	0	0	8.0	Y
87	Seyaw Payan		25	0	15	0	8	0	0.0	Y
88	Shabak	Landy Shabak	15	0	10	0	6	0	1.0	Y
89	Shabak	Shabak-e-Bala	8	0	1	0	0	0	0.0	N
90	Sinzi		25	0	0	0	0	0	12.0	Y
91	Tomany	Koro Naw	0	0	0	0	0	0	9.0	Y
92	Tomany	Oghuz	0	0	0	0	0	0	9.0	N
93	Tori Khel		1	0	2	0	0	0	0.5	Y
94	Wodisar		10	0	3	0	2	0	1.0	Y
95	Yaghi Band		10	0	5	0	0	0	20.0	Y
96	Yaka Khak		4	0	0	0	0	0	14.0	Y
97	Zarif Khel		15	0	7	0	0	0	0.0	N

**Table 3.7: Use of fertilizer and agrochemical**

Fertilizer				Agrochemical			
No. of villages reported	% of villages reported	Type of fertilizer	Average Price (Afs.) per bag	No. of villages reported	% of villages Reported	Type of Herbicide	Average Price (Afs.) per kg/litter
93	96	DAP Nitrophos Urea	875300 672800 512700	2	2	2,4-D Unknown	Unknown 200000

No. of villages surveyed: 97

### 3.5 Farm Power

The survey confirmed that oxen, tractors and threshers were the main sources of farm power. A total of 1,278 oxen, 10 tractors and 2 threshers were reported in all the areas surveyed (see Table 3.8 and Appendix L and M).

**Table 3.8: Farm power**

No. of villages surveyed	Total No. of oxen	Avg. No oxen/ village	Total No. of tractors	Avg. No tractor/ village	Total No. of threshers	Avg. No thresher /village
97	1278	13	10	0.1	2	0.02

## 4. ILLICIT CROP PRODUCTION

The enumerators faced difficulties in determining the existence of addicts due to the reluctance of the villagers to provide the information. The surveyors did, however, attempt to establish the extent of drug use in the surveyed areas.

The main illicit crop grown in the 88 villages surveyed was opium poppy. Total acreage under opium poppy in 1999/2000 was reported to be 4,223 jeribs with an average yield of 10 kg per jerib. Only one opium poppy addict was reported in the whole area surveyed.

Hashish was grown only in Sro village of Ghwagiza area on a total of 250 jeribs of land with an average yield of 30 kg per jerib. A total of 87 hashish addict was reported. The data reveals amazing reduction of hashish cultivation in 1999. In fact, the Taliban forced farmers not to cultivate hashish, otherwise they would face punishment. It is worth mentioning that the enumerators faced difficulties in determining the existence of addicts due to the reluctance of the villagers to provide the information. The surveyors did, however, attempt to establish the extent of drug use in the surveyed areas (see Table 4.1 and Appendix N).

**Table 4.1: Illicit crop production**

Illicit crop	No. of villages Reported	Total acreage		Average yield		Number of addicted
		jerib	hectare	kg/jerib	kg/hectare	
Opium poppy	88	4223	845	10	2	1
Hashish	1	250	50	30	6	87

Covered wells, karezes, open wells and ponds supplied the remaining 25% of the drinking water.

### **Access Road and Transportation**

- Access roads were reported in 75 villages, however 53 villages reported the status of the roads as bad and 22 other villages cited the condition of the road as fairly good. Donkeys and vehicles are the most important means of transportation in all areas surveyed.

## **AGRICULTURE**

### **Farm Size**

- Of 17,077 jeribs of land in the surveyed area, 73% is irrigated and 27% rainfed. A total of 12,902 jeribs of arable land was cultivated last year, while 4,175 jeribs of land was abandoned. 56% of the land is double cropped.
- Shortage of irrigation water, lack of farm power, high water table, damaged land and karezes are reported as the main reasons for land abandonment.
- A total of 151 jeribs of land was under orchard. Eleven fruit nurseries are reported in the surveyed villages.

### **Main crops grown**

- The main crops in the surveyed area are irrigated wheat, maize, potatoes and onion which were grown in 96, 92, 12, and 10 villages in that order. Walnuts and berry were grown in 59 and 2 villages, respectively.

### **Products for Marketing**

- Maize, wheat, apple, apricot, grape, pomegranate, walnut, watermelon, cauliflower, onion, potato, tomato and animals like cattle, cow, donkey, goat, oxen and sheep are taken to the market.

### **Improved seed, Fertilizer and Agrochemical**

- Farmers reported planting improved wheat seed in 29 villages, maize improved seed in 8 villages and rice improved seed in 3 villages. Use of fertilizers such as DAP, Nitrophos and Urea was cited by 96% of villages. The application of herbicide was recorded in only two villages.

### **Farm Power**

- 1,278 oxen, 10 tractors and 2 threshers were available in the whole survey area.

## **ILLICIT CROP PRODUCTION**

- Of 97 villages opium poppy is grown in 88 villages. Total acreage under poppy cultivation in 1999/2000 was reported to be 4,223 jeribs with an average yield of 10 kg/jerib. Hashish was another illicit crop grown in only one village on a total of 250 jeribs land. A total of 87 hashish addicts and one opium addict were

reported in the surveyed area. The main reasons for growing illicit crop were reported to be more income and low water requirement.

## **IRRIGATION WATER SOURCES**

- In 97 surveyed villages, 74% of land was irrigated by canal/stream and the majority (62 villages) reported abnormal canal/steam flow. 27% of land was irrigated by karez and springs. 91% of the villages complained for the shortage of water. The main reason for water shortage was drought.

## **LIVESTOCK AND POULTRY**

- After farming, animal husbandry was the major agricultural activity. A total of 7,760 cattle, 26,244 sheep and goats, 2,251 donkeys, 9 camels, 77 horses and 34 mules were recorded in all the areas under survey. 95 villages were recorded as having an average of 10 chickens per family.

## **EDUCATION**

- A total of nine schools were reported in the surveyed area where 1,919 boys and 179 girls are taught by 75 male teachers. These schools are either funded by the government or by AGBASEd. There are 1,195 children aged 6-14 who have not attended school. Only one madrassa was found in Nargosay village of Joka where 120 students are studying.

## **HEALTH**

- Only one clinic was found in Shabak-e-Bala where one male doctor and seven nurses were working. 67 midwives were serving in the surveyed areas. Bronchitis, diarrhoea, malaria, pneumonia, TB and typhoid were the main diseases.

## **LAND MINES**

- The existence of mines is confirmed in roads, forests near villages, grazing land near villages and mountains. There were a total of 147 land mine casualties during the whole war period.

## **INCOME GENERATION**

- A total of 451 skilled people were busy in different fields such as blacksmiths, butchers, carpenters, cobblers, daily workers, drivers, embroiders, masons, mechanics, potters, tailors, watch makers and weavers. Harvesting wheat and hashish, lancing, ploughing, selling fire wood and weeding were recorded as the main seasonal productive activities.

## **MARKET AND MARKET PRICES**

- A total of 79 shops were found in the surveyed area. Those shops included bakeries, blacksmith shops, butcheries, cloth stores, restaurants, medical stores, oil shops, vegetable shops and wood shops. Only one market was recorded in Shabak-e-Bala.

## **UN AGENCIES/NGOs ACTIVITIES**

- Twelve governmental and non-governmental organizations were functioning in the surveyed area. (For their name and activities see Appendix)

**BASELINE SURVEY OF HESARAK  
DISTRICT**

**NANGARHAR PROVINCE**

**May 2000**

**Prepared for:**

**United Nations Office for Project Services  
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**Prepared by:**

**Agency Coordinating Body for Afghan Relief  
Survey Unit, Peshawar**

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## ABBREVIATIONS, WEIGHTS AND MEASUREMENTS

ACBAR	Agency Coordinating Body for Afghan Relief
AGBASEd	Afghan German Basic Education
ARRP	Afghanistan Rural Rehabilitation Programme
ASU	ACBAR Survey Unit
ATC	Afghan Technical Consultants
Avg.	Average
DACAAR	Danish Committee for Aid to Afghan Refugees
FAO	Food and Agriculture Organization of the United Nations
IDP	Internally Displaced People
IRC	International Rescue Committee
Irr.	Irrigated
NGO	Non Governmental Organization
OMAR	Organization for Mine Awareness and Rehabilitation
ProMIS	Program Management Information System
RAFA	Reconstruction Authority for Afghanistan
Rain.	Rainfed
SCA	Swedish Committee for Afghanistan
TB	Tuberculosis
UNHCR	United Nations High Commission for Refugees
UNICEF	United Nations Children Fund
UNOPS	United Nations Office for Project Services
UXO	Unexploded ordnance
WHO	World Health Organization

1 seer = 7 kg

1 ha = 0.2 Jeribs

1 Rs = Afs. 1,100\*

1 \$ US = Afs. 62,000\*

\*These rates are unstable.



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M. Omar Anwarzay, ACBAR Survey Unit Manager, trained the surveyors and organized the field survey. ASU Field Coordinator, Sultan Mohammad, visited survey areas and supervised the survey's progress. A total of three supervisors (Mohd. Alem, Azizullah and Mohd. Gul) and six enumerators (Abdul Wahab, Abdul Satar, Fakhruddin, Keshar Khan, Habib ul Rahman and Sayed Luqman) conducted the field survey. Marzia Wardak, Report Writer, wrote the text, figures and tables of this report. Database and designing of form for data entry, data analysis, and processing were completed by Abdul Rahman, Data Analyst/Computer Programmer; Eng. Shahabuddin, Mohammad Salam and Qudratullah, Computer Operators.

ACBAR would like to thank all the farmers, village elders, and local governing authorities who participated and cooperated in this survey, the results of which are consolidated in this report.

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## SUMMARY AND CONCLUSION

The United Nations Office for Project Services/Afghanistan Rural Rehabilitation Programme (UNOPS/ARRP) commissioned the Baseline Survey to the Agency Coordinating Body for Afghan Relief, Survey Unit (ACBAR/ASU) to provide basic information about target areas. The main goal of the survey was to enable UN and other development agencies to better target rehabilitation programmes in Afghanistan. The survey is the most systematic attempt so far to identify the most urgent needs while tracking repatriation to particular areas in Afghanistan.

This survey is the continuation of the Azra Initiative, which was initiated in 1997. After the rehabilitation of Azra and Tezin areas, United Nations selected four new districts (Hesarak, Khaki Jabar, Gardez and Sayed Karam) for focused assistance due to potential high refugee return.

The survey was conducted during May 2000 in order to provide baseline data about population and shelter status, repatriation, health and education facilities, existence of land mines, agricultural production and productivity, illicit crop production, livestock and poultry, type and status of irrigation systems and income generation activities (see Appendix A).

Survey data was gathered on a village basis through group interviews with village and tribal elders, landowners, and other important and knowledgeable individuals.

The results of the survey are as follows:

### GENERAL INFORMATION

#### Population

- The number of families present at the time of survey was 3,723 of which 102 families were found to be nomads. A total of 359 disabled people and 261 widows were found in the survey area.

#### Repatriation

- The survey concluded that a total of 3,062 refugee and IDP households have returned to the surveyed areas, while another 299 households have moved to the areas from other places in Afghanistan. However, 3,802 families are still refugee or displaced. Lack of food and employment opportunity were reported as the major problems in the way of successful repatriation. Lack of school, road and clinics were the other problems cited by the villagers.

#### Housing Status

- A total of 3,500 houses were reported in Hesarak district of which 41% were undamaged, 28% were damaged and 31% were destroyed.

#### Drinking water sources

- Canal/Joy was reported to be the main source (41%) of drinking water, followed by rivers and springs providing 18% and 17% of drinking water, respectively.